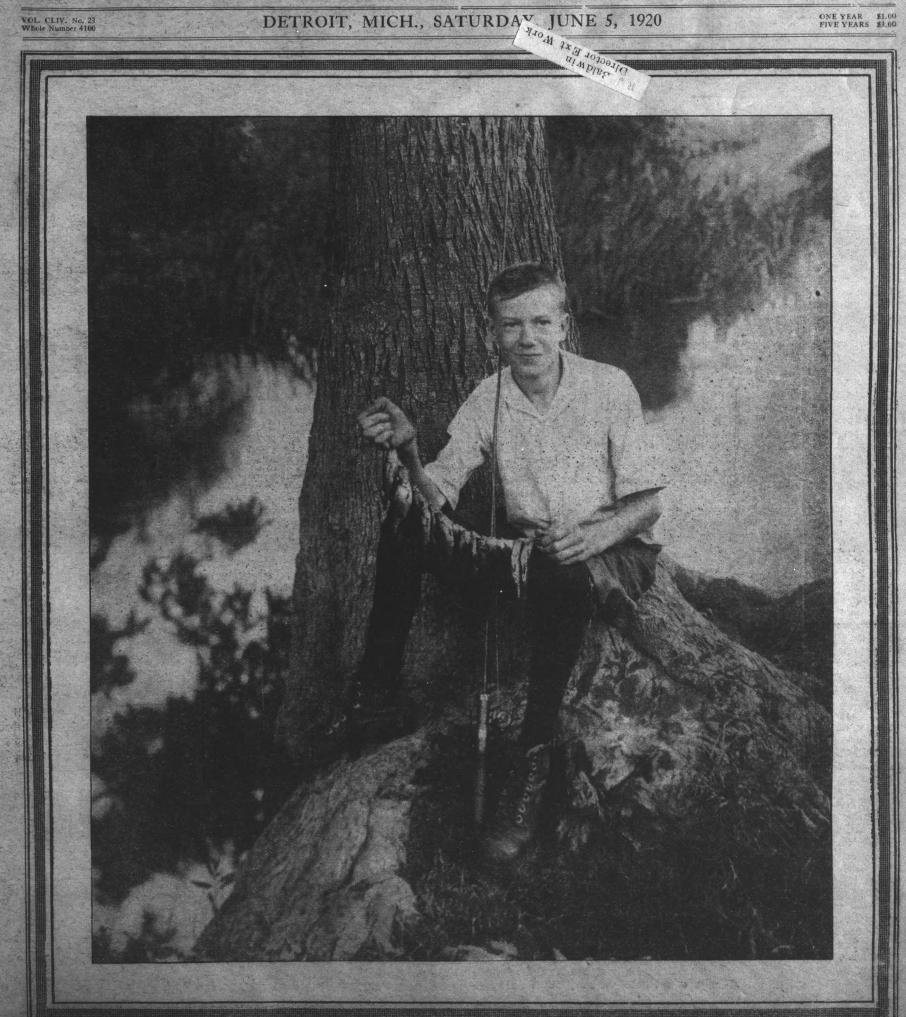


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DETROIT, JUNE 5, 1920

CURRENT COMMENT

Wholesale vs. Retail Selling

THE marketing of farm products in the largest possible percentage of the con-

sumer's dollar is the very desirable organization by industries and by communities, very substantial progress is being made toward that end.

of farm products, direct selling by the er's door still remains to be demonproducer to the consumer was the first strated. step. The development along this line tain, even with the development of co- more costly than is necessary. operative distribution. But as a means of disposing of the many and varied products of the average farm it is impractical, hence the development of co- Advertising operative selling on a large scale, Michigan which was the next logical development in the rapid evolution of distri-

This latest development has, owing to the large transactions involved, been almost wholly confined to wholesale, rather than retail transactions. The fruit growers of the far west blazed the trail for wholesale cooperative selling. They were followed by the fruit growers of the south, the grain growers of the corn belt, soon by the grape growers of Michigan, and a little later by the potato growers of a large section of the state, as well as the live

have been relatively few; probably not the expenditure of some \$3,000 of this greater in number, if not less, than the fund in the advertising of Michigan lines. And the percentage of failures of the country. From the reports reprivate business failures in the same is rapidly growing smaller with accum- ceived from the various cities the comulated experience which prompts the mittee drew the following general conmore adequate financing and the bet- clusions, which will be of as great in- fiscal agents of new stock issues to ter business management of these co- terest to bean growers as to bean operative enterprises. Cooperative jobbers: wholesale distribution of farm products is no longer an experiment. It demand for Michigan navy beans, investment or speculative stocks to

tempts have been made in this direc- bean is not recognized by the general get his fat commission for the stock tion and these have not been notably public. successful where attempted in a large way. Of the attempts made in this grocers are enthusiastically inclined saction is also profitable for the farmhave, at best, resulted in only partial can be used to lower living costs. case with wholesale cooperative sell-continuous educational campaign. ing. This experience of the pioneers ied by other producers who are at tion in making such a campaign a will in the end be redeemed at par. tracted by its possibilities, to the end success. that the mistakes made by them may be avoided.

almost as uniformly successful, as has ent-day economic conditions. cooperative selling in a wholesale way distribution, wholesale transactions the genuine Michigan navy bean. have been the universal point of condistributors of food products, where Obviously the elimination of the collector, so far as his services may be such manner as will dispensed with, as it has been demonbring to the producer strated that they may in a great majority of cases, is the proper economic function of the producer. It has also been pretty clearly demonstrated that end toward which farmers everywhere the services of the private distributor committee of the association was auare working. And through cooperative may, under favorable conditions, be economically dispensed with by organized consumers. But whether producin the evolution of the distribution full length of the road to the consum-ting made toward that end.

In the evolution of the distribution full length of the road to the consum-ting the distribution full length of the road to the consum-planting of a liberal acreage to this two of her big financial institutions.

The logical course in this economic by individual producers reached, in the development is undoubtedly the one aggregate, quite a large volume of which is now being generally followed, business, and with certain special to its practical completion. The final products was a gratifying success answer to the question as to whether where good customers were secured this is the most advantageous meeting and given service which would retain point of producers and consumers rethem. Such a special market for a mains for future development. Expespecial product is a desirable asset rience must determine this point, and well worth the trouble involved to re- this experience should not be made

Beans

bers' Association. At an informal value to the Michigan product and promeeting of members of this associa- tect it in large degree from the comtion held in Lansing late in April an petition of inferior products, especially advertising committee was appointed if supplemented by suitable educationand a guarantee fund of \$3,625 was al campaigns to impress the superiorsubscribed by those present to carry ity of our product on the consumer's out an advertising campaign with a mind. view to stimulating consumption to a In view of this development it is to point which would facilitate the move- be regretted that the bean growers'

The failures in this development mittee giving the results obtained from

First.—That there is an increasing

Fourth.—That wholesale and retail

Seventh.—That the Michigan navy In the history of the cooperative the American menu today at a far lowmovement, cooperative buying in a er cost than at any other time in the wholesale way by consumers has been country's history because of the pres-

by producers. In fact, the most con- Michigan navy bean upon a pedestal ing the freight jam while the chiefs are urging upon the interstate comspicuous of the earlier cooperative where it rightfully belongs and create successes were of this nature. In the for it such a demand that the people development of privately controlled will willingly pay a premium to obtain

Ninth.—That we should take full adtact between the collectors and the vantage of the opportunity to secure the cooperation of wholesalers and redirect transactions were impractical tailers, who are ready to push the Michigan navy bean and spread broadcast our propaganda.

The bean jobbers present at the Saginaw meeting thought so well of this experiment in the education of consumers regarding the quality of Michigan beans, that the advertising ers generally can profitably travel the well for a good outlet for next year's

crop this year.

Perhaps the most significant fact retices to the bean dealers which are son declared unconstitutional the far-reaching effect in increasing the in the necessities of life and also the popularity of Michigan beans with charging of excessive or unjust rates A N important and consumers throughout the country, and prices, progressive step The most important of these suggestoward popularizing tions were the stenciling of the bags Michigan beans with in which the beans are packed, and benefiting this important factor of ag- the retailer in selling the beans over benefiting this important factor of age the recaller in selling the beans over construction for France believes that ricultural production in our state has the counter. The general adoption of that country will be able to pay off been taken by the Michigan Bean Job this plan will be of great advertising her immense debt within forty years.

ment of the balance of last year's crop. association has become inactive, since

Farmers' Liberty Bonds

since the close of the

cast an envious eye toward the accumulated savings of farmers in the form of Liberty Bonds. The salesman with killed. is a demonstrated success and may caused to a large extent by the adverproperly be considered as a permanent development in the evolution of discontinuous conference of the Michigan navy bean is not gendered as a permanent to the michigan navy bean is not gendered as a permanent to the farmer's bonds at par, which sounds like quite an inducement in addition.

Second.—That the high food value to the "unusual opportunities" offered by the stock itself. Generally the developing enterprise can use the bonds final consumer will soon, if ever, be realized is far less certain. Few at Michigan navy bean over the imported vert them at the discount in order to Memorial Day exercises.

There are cases where such a trandirection, those made in the retail dis- toward an educational campaign which er, but in a majority of instances the tribution of market milk have been would tell the American family about owner of Liberty Bonds will be wise most conspicuous. These experiments the Michigan navy bean and how it to forget the "par" offer for his bonds as an inducement to part with them, success, with a far greater proportion Fifth.—That now is the opportune particularly unless he is positive reof ultimate failures than has been the time to inaugurate a consistent and garding the value of the investment offered. Liberty Bonds are good prop-Sixth.—That the newspapers, whole erty, always available as collateral and in this line of development of the sell- salers and retailers will cooperate with easily convertible into cash. They will ing business should be carefully stud- the Michigan Bean Jobbers' Associa- yield an income while maturing and

bean can be made a principal part of News of the Week

Tuesday, May 25.

PRESIDENT WILSON asks congress I to grant authority to accept for the United States a mandate over Ar-Eighth.—That we should place the menia.—Railroads are gradually relievmerce commission the necessity of an increase in freight rates.-A sweeping investigation of the sugar brokers of the country to obtain a fair distribu-tion of the product if possible is to be made by the federal department of justice.—One person is killed and twelve injured in a railroad collision at Hazelton, Pa.—The American Sugar Refining Company advances sugar another cent to twenty-two and a half cents per pound.

Wednesday, May 26.

A NNOUNCEMENT comes from Japan that paper is being successfully made from a sea weed.—Italy ing closer trade relation with the United States.—The war department expects to settle all unliquidated war thorized to formulate a further pub contracts before July 1.—American ex-licity campaign and provision was ports to Hong Kong have increased made to finance same. This promises forty per cent since 1918.—The United States navy buys 5,200,000 barrels of crude oil.—The crash in silk market of

Thursday, May 27. PRESIDENT WILSON issues a procgarding this experimental publicity campaign is that the indirect benefits and cereal products on June 1.—Food prices dropped acts on June 1.—Food prices dropped which may be derived from it are like an average of twelve per cent in New ly to surpass the direct benefits al-York last week.—The commission on ready apparent. From the official re- car service orders the roads to put in port of the meeting it appears that trains.—Dealers in Argentine are now the investigation as to the result of permitted to export sugar up to one the advertising suggested certain prachundred thousand tons.—Judge Anderlikely to have a very permanent and tions of the Lever law which prohibits combinations formed to limit supplies

Friday, May 28.

PRESIDENT WILSON vetoes the peace resolution passed by congress, stating that he could not bedomestic consumers the enclosure of similarly stenciled come a party to a program that would and thus permanently paper sacks in each bag for the use of put an ineffaceable stain on the nation's honor.-Former Minister of

Saturday, May 29.

A N effort to override President Wilson's veto of the republican peace resolution fails to pass the house by twenty-nine votes.—Foreign trade for April shows a net balance of \$250,000,000 in favor of this country.—The army reorganization bill will go before the house without provision for universal training

Sunday, May 30. stock producers and the general farmers who are everywhere rapidly getting in line for the cooperative sale of
their products in a wholesale way.

ment of the balance of last year's crop.

association has become inactive, since
growers could well afford to cooperate
with dealers in popularizing their man passenger ships have been chartwas presented by the advertising committee sixing the results obtained from
mittee sixing the results obtained from
mittee sixing the results obtained from
mittee sixing the results obtained from THE need for new for a federal budget system.—Statistics compiled by the United States Forest Service show Michigan's unfoating of new busitouched timber resources still aggreness development gate more than 50,000,000,000 feet.

Monday, May 31. war has caused the RUSSIAN Bolshevik troops have ocnew stock issues to eye toward the accumof farmers in the form Killis, Syria, 1,200 Turks are reported

Tuesday, June 1.

Marketing Woodlot Products

Professor F. H. Sanford of the M. A. C. Forestry Department Makes Some Practical Suggestions.

large and ever-increasing per cent of least, \$19,360 when sawed up. woodlot owners are taking care of their timber. By this I mean that they are:

First.—Building up a full stand of

Second.—They are cutting the defective trees for fuel instead of the easiest-splitting, straightest ones, as many were doing a few years ago.

Third.-Many of these are not allowing stock to destroy the forest floor or pack the soil, as this readily checks growth by causing the loss of the soil

Fourth.—Careful and wise selective thinning is being practiced to bring about proper spacing of trees and thus a condition of maximum growth.

Taken together, all these points in the care of a woodlot may be called intensive cropping for wood. The owner looks at the product as having a value meaning that has been produced by his effort and at once assumes a

Such an owner is apt to think of his woodlot as a crop that has been and is in his control, and if he does, he expects a harvest that will pay him for the cost of production and a fair profit, though as yet few think in these terms, still that is in substance the idea in his mind. From this class of owners must come the demand for a fair and uniform market if the woodlot products are to be justly distributed. It is also true that such a market must be established if the proper stimulus and encouragement in timber production is to be secured to the great mass of

The Community Project.

At present in nearly every small town at some time during the year, may be found the banks of logs brought

day, about two hundred thousand feet of choice white and red oak, maple, ash, cherry and walnut, beech and basswood was awaiting a five thousand outfit that was incapable of turning out uniformly true thickness stuff.

Many boards from such outfits run local dealer. all thicknesses, from three-quarter-

To supply these same farmers with of lumber or timber either for buying ing of woodlot products, such as logs,

lating to the marketing of tim- under the most skillful of head saw- the twenty-five or thirty contributors become organized units they may perber as given in the issue of May yers. Had there been in existence a at a fair average price for the product fect county and state organizations to 15, the question may then be asked: well established market for these logs to that rollway, each one would have facilitate freedom of exchange. What can be done to correct this con- of \$96.80 per thousand, the value of had dressed lumber that was cut true Since the farmers of the state are dition, and the answer is patent: A that rollway would have been at the to size and ready to paint.

there by farmers, and awaiting the arrival of a small portable mill which cuts them into the necessary sizes and dimensions required for the farm uses.

In such a yard, visited the other day, about two hyndred they and feet they about two hyndred they and feet they are to most only the annual nest requirements of the farm. ting is done to meet only the annual post requirements of the farm.

a good grade of yellow pine or Doug- or selling purposes is a step in the las fir that would meet their require- right direction, it is not the final word bers of valuable posts, ties and poles to eight thousand daily capacity saw ments in every way the cost would in cooperative marketing. Like the as well as a large acreage of timbered have amounted to approximately \$13, individual producer the individual com- land that is annually being cleared to 000 from quotations secured from the munity is helpless without the oppor- provide more farm and pasture land.

In addition to the saving of a profit organizations.

FTER reviewing the situation re- inch to six and a quarter inches except of \$63,600 which would have benefited Once the local wood and log yards

joining the farm bureau almost united-But while the community grouping ly there will be more buying and sellposts, ties, poles, maple syrup and sugar, nuts, fuel and building supplies as a part of their local activity, they will ask for wider service through their county and state organizations.

Such an organization as the farm bureau has an unlimited opportunity to put across a service to the farmers of Michigan.

Need for Cruising Assistance.

One of the very serious handicaps which the average woodlot owner suffers under at present, is his lack of knowledge of log or standing tree values as referred to above. Before he can act safely in a timber deal the farmer must know the value of his timber. He should have a definite policy in mind for the future of his woodlot and in order to lay the harvesting plans should be able to either specify terms and manner of cutting, or else be able to secure disinterested and impartial estimates and advice at reasonable costs.

Under an organization of farmers this service could be established and handled efficiently and justly. The uncertainty and unfairness between buyer and seller would gradually fade out as true values and quantities became

Better Markets and Closer Utilization of Choice Varieties of Wood.

Some woods of Michigan are exceedingly high-priced and valuable, but owing to the isolated and scattered condition of such timber the individual owner markets or saws it with other woods for domestic uses because of the difficulties of handling it sep-

Operating under a state organization this owner would learn of the special markets for such species. Communities or counties might assemble and buy and sell in quantities to attract the best prices of distant manufacturers.

Distribution of Necessities.

Many woodlots produce great numtunity of exchange between other like Such products should be distributed to

(Continued on page 884).



A common condition in the woodlot sections where pasturage of the woods has prevailed for too long a time. Old mature oaks here shade the open spaces and prevent even a good growth of grass, while the live stock destroys all seedling growth as it appears. A remedy may be found when the ripe, mature timber can be marketed to advantage and the young growth encouraged to come in and fill up the open spaces.



Great acreages of land like this that are growing willow and tag-alder brush should be producing crops of some kind. Better to have it growing timber until agriculture demands it for food production than to allow it to stand like this year after year producing nothing except a very favorable condition for fire



WORK OF OUR

Our Circuit Rider Finds a Wealth Resources in a Survey of Barry

Pleasant home of A. N. Williams

stock and handling farm supplies. Its officers are: Jarvis H. Campbell, president; F. D. Pratt, manager; Wm. Gackler, Glenn Allen, John Sensiba, Al-

Middleville also has a cooperative server or person prone to quote keting wool cooperatively would stim- creamery which does a business of

Company does a strictly butter-making business, owns its own trucks and does its own marketing. The officers are: Eli Lindsey, president; Marshall Norwood, vice-president; John Doster, treasurer; Philip Merlau, D. B. Erb. directors. Last year's business went above the \$120,000 mark.

At Hastings the Central Barry Cooperative Association handled \$210,000 worth of stock last year. It handles seventy-five per cent of the stock shipped at Hastings. The association has four hundred and seventy-five members and the officers are: Peter Kuntz, president; R. B. Walker, vice-president; C. A. Woodruff, manager; D. W. Sisson, Theren Cain, Clayton G. Humphery, Charles J. Moore, directors. At the present time efforts are being made to organize another association at Hastings to conduct an elevator and handle farm supplies.

BARRY county is pretty well organized and much of the credit belongs to R. V. Tanner, who had charge of the projects before going to Lansing to become assistant manager of the seed department of the State Farm Bureau. Frank Bennett, who succeeded Mr. Tanner, was born and raised in Kent county. He is especially well qualified to carry on this line of work for his wide experience as a Grange leader, and his convincing way of putting across his ideas are sure to serve him well in the new work.

Mr. Bennett believes that the future of cooperative effort in Barry county depends upon better rural schools, "It is very evident," he says, "that our present system of rural training is undemocratic and cannot fit our boys and girls for the broader, fuller country life just ahead of them. In the days of the old district school few community projects called for educated, trained leadership. Now such projects as good roads, cooperative buying and selling, community welfare and better farming call for educated idea of business and social problems. Over at Schultz is a prosperous co- Civic duty and community welfare deeamery. At Delton we visited the The consolidated school can success-

Lewis Heine, Wm. Dunning, directors. Another matter about which Mr. The Delton Cooperative Creamery Bennett is exercising great caution is

statistics rather than travel the coun- ulate an interest in this type of sheep about \$125,000 annually. It has five ty it belies its agricultural wealth. The husbandry. crops are so diversified and the prod- Like other Michigan counties Barry ganized on the non-profit plan. The ucts go to market in so many forms goes in strong for poultry. But in officers are: Fred Steeby, president; farms.

ails Barry county-it don't show up to urged by the County Farm Bureau. advantage unless one takes the trouble to seek things. If you want to see the doctrine of making the farm feed productive, well-kept farms and pro the family living on it. If this docgressive farmers, take a flivver and trine is based upon the right princiroll through miles and miles of good ples, then the great secret of Barry farming land and see some of the best county's strength is revealed. Begin farms in Michigan.

stock production must be emphasized, families; so that what is sold is farm In dairying Barry county is on the np. surplus. Apply this axiom to her farmgrowing corn, clover, alfalfa, and small idly as poor cows and hens, grain. There is a keen interest in cowtesting work and breeders' associations are encouraging the bearing of tions are encouraging the keeping of better cows. Everything but the labor situation is favorable for a big expansion of the industry.

Reef feeding is a leading feature of the farming. On many farms one finds a combination of silage, hay and grain feeding. The Shorthorn Cattle Breeders' Association is doing a splendid work. There is a steady increase in the number of silos and alfalfa is taking possession of considerable of the rolling land.

Swine breeding is receiving considerable attention. One Duroc Jersey and one of the best creameries in Breeders' Association at Doster has Michigan. It has seven hundred memtwenty members who own high-class bers, makes forty-two thousand pounds sows and three good sires are owned of butter a month and sells it for sevjointly. By combining their interests en to eight cents above the quotations they have secured many good advan- for creamery firsts. The association tages and succeeded in putting their also handles all kinds of dairy feeds. community on the map as a center for good Duroes.

ty is favorable for a more rapid expanner, George H. Garms, C. F. Fuller, sion of the industry, especially on the Seymour Hartwell, directors. basis of small farm flocks for utiliz-



Grace Oesterboon Hengerveld, 31.11-Ib. Cow Belonging to H. E. Risling.

ARRY is chiefly a rural county. It ing waste and grazing rough lands. It bert Barrell, directors. is not large and to the casual ob- would seem that the new way of mar-

that the general average rather than stead of large flocks one finds a large F. O. Stokel, manager; Samuel Allen, crop yields and total sales of certain number of small flocks. Culling is the products must be given proper consid- order of the day. One woman near eration in estimating returns from Middleville has increased the egg returns from her one hundred hen flock The railroads wander through nar- forty per cent by simple culling methrow valleys and some of the poorest ods. A number of others claim equalfarm lands. That is one thing what ly as good results. This work is being

Great agricultural economists preach a typical rural county with no large In any effort to portray its agricul- centers of population her farms conture the natural advantages for live tribute largely toward feeding their grade. The pastures are luxuriant ers and you will discover why the poorand the climate and soils right for er ones are being eliminated as rap-

> seventeen hundred farmers in the farm bureau, organizing the producing interests seems to be the order of the day. Frank Bennett, the new county agent, is busy carrying on the work started by R. V. Tanner. The day the writer arrived at Hastings Mr. Bennett drove over to Woodland where we visited the lively Cooperative Shipping Association.

In the evening we drove to Nashville and visited the officers of the Farmers' Cooperative Creamery Association. Here is a live group of men,

The officers are: Will G. Hyde, good Durocs.

Interest in sheep is steadily increasing, though the topography of the counmarshall, W. A. Smith, L. D. Gard-

The Nashville Cooperative Elevator Association is getting organized for business. It will handle grain and general farm supplies. The officers are H. H. Offley, president; R. B. H. Tieche, secretary; Earl Olmstead, Glenn Worting, Arthur Mead, Fred Garlinger, Ed Penfold, Myron Tuckerman and Ed Liebhauser, directors.

At Cressey the Southern Barry Shipping Association, with Dilbert Ensign, president, and John Oslow, manager, shipped more than \$150,000 worth of stock at a big saving to farmers.

At Middleville we visited the Cooperation Association, which conducts a \$250,000 annual business of shipping



V. Tanner, Until Recently County Agent of Barry County, is now Assistant Manager of the State Farm Bureau Seed Department.

Jarvis Campbell, Frank Waters, di- men and women who have a clear-cut

operative creamery with Will Gorham, mand a broad and liberal education if manager; Will Chamberlain, president. farmers are to make the best use of Freeport also has a live cooperative their new powers and responsibilities. Cooperative Shipping Company, which fully give the boys and girls the kind did \$120,000 worth of business last of an education they need for living in year. The officers are: W. H. Whit- the new age just ahead. I look upon temore, president; R. E. Webster, vice- the school problem as one of the really president; D. B. Erb, secretary; Clay- big things which the County Farm Buton Louden, manager; C. Lechleitner, reau must help straighten out.



The Home of Fred J. Lawrence is Typical of Many in Barry County.

FARM BUREAUS

of Potential and Developed Agricultural County with County Agent Bennett.

selecting the right locations for cooperative projects. Just because a few farmers in some little community are enthusiastic over the new cooperative way of buying and selling is no reason for calling a meeting to organize a new association. The big idea in this organization work is to build up a strong, well-financed association, situafed at some good railroad point from which good roads radiate. One live association that enjoys liberal patronage will do more to spread the Gospel of cooperation than ten weaker ones. Unless one of these locals makes a turn-over of around \$100,000 per year if is doubtful if much saving can be made in conducting the business. Of course, there are exceptions to all rules, but generally speaking there should be more attention given to the selection of suitable locations for these associations. This is a problem that the County Farm Bureau cannot afford to overlook in their general organiza-

THAT these cooperative movements ers is quite evident from the visits I have had with salesmen who are covering the territory in the counties where the associations are most active. In the hotel at Hastings I fell in with a farm implement salesman. This keen-scented trade hound has a nose something to say about their own bus- stein Breeders' Association. iness. This discovery is breaking up competition for a lot of firms who are firm that neglects to figure these milk things as a factor of the trade in Mich-

County Agent F. W. Bennett

in a way of getting some profits of the business that would otherwise go to fellows who have worked together so long. If cooperation can be made to save real money, farmers

songs, speeches, literature and prom- breed enthusiasts. ness man would do it. Any other ways to duplicate in type, quality and right lines." method invites failure."

marked, "that the farmers have come Through the efforts of Mr. McElwain, is sure to rank among the great sires field of Rosen rye last season he harout of their Rip Van Winkle sleep long Barry county is securing one new of the breed. The dam of Mr. Harp-vested thirty-four bushels per acre. enough to discover that they can have member each month to join its Hol- er's bull is Wheedie Queen De Kol, W. A. Smith, of Nashville, has one

have always figured that they had a right type, size and productive capac-family of thirty-one-pound cows.

requires good salesmanship to sell Beets De Kol is a genuine wellbred them better. F. D. Cutler, who recent equipped with every convenience and these farmers, and the firms that think bull, whose sire has a fine list of ly sold his herd and has set about the comfort that goes to make country life they can sell their goods in the old daughters, headed by a thirty-seven- task of building up another. Carey U worth while. Wheat, corn and alfalfa way and ignore the farmers' business pound four-year-old that was sold for Edmonds, the well-known Duroc Jer- are the main crops and Holstein cattle organizations are due for a sudden jar. \$5,000, and he is from Aaggie Pauline sey swine breeder who is getting and Duroc hogs make up the live "The thing I like best about these Sarcastic, the greatest high-record ready to make Holstein men sit up stock. organizations here in Michigan is the cow of her time. His dam averaged and take notice. Harold Barnum, a At Delton, D. B. Erb has an excelfact that your County and State Farm well over eighty pounds of milk a day former M. A. C. man, who is deeply lent farm of one hundred and thirty-Bureaus have cut out all political and and made thirty-three pounds of fat in interested in Holsteins has got the five acres devoted to dairying and gen-

can provide necessary entertainment of the first century sire, the famous Campbell, of Middleville, and uplift. They are no longer con- Hengerveld De Kol, who has ten thir Moorehouse, Eli Lindsey, E. C. Towne, tent to put their good money into so ty-pound daughters. Mr. Risling has Ernest Moorehouse, Thomas Gorham, called cooperative enterprises and re- about thirty head of the- type and C. C. Pettingill, M. N. Hughes, Fred ceive their dividends in the form of breeding that pleases the most critical Hughes, have all started in the game

production. Mr. Harper is making A few miles from Hastings, on the Mr. McElwain has recently purchased the best and strongest bred bulls in most popular blood lines.

the farmer's income. I cover quite a above sixty-one pounds of butter-fat a are Jordan Brothers, who have made monthly records of the cow-testing asterritory in some of the good farming month in the cow-testing association, a number of records of from twenty sociation. states, and since I have been up here. In Mr. Risling's herd are Grace Ooster- to twenty-six pounds of butter in sevin Michigan I've bumped into enough boon Hengerveld with a record of en days. Newton Brothers and L. J. visited Roy Brumm, formerly County of these cooperative associations run 31.11 pounds of butter; 583 pounds of Matthews, who have recently purchas- agent of Garry county. Mr. Brumm is by farmers to know that they can give milk in seven days. Duchess Girl Vee- ed, jointly, for one thousand dollars, an old M. A. C. man and has one of a service which means mighty warm man, 29.27 pounds of butter, and 575 a bull from Mr. Risling's herd. Dorr the best fenced and best laid-out pounds of milk. Meta De Kol Veeman, Stowell, who has some classy daugh- farms in the county. underestimating their strength. The 25.47 pounds of butter, 700 pounds of ters of the Risling bull. Percy Winslow, who has some bang-up good farm near Middleville is one of the His herd sire, and the sire of Mr. young stuff. A. D. Miller, of Woodland, real show farms of the county. Evigan is blind to its opportunities. It McElwain's bull, Johanna Hengerveld who is buying the best and breeding crything is modern and the farm is social trimmings, and put the farmers seven days. She is a granddaughter foundation of a crack herd. In blood eral farming. Mr. Erb is active in all lines and production records the coun-cooperative work and every movement ty is making rapid progress, and no to benefit the farmer. effort is being spared to secure the W. A. Grozinger owns a fine farm of best sires of the breed to improve Bar- two hundred and fifteen acres a half ry county's Holstein herds.

> HOLSTEIN men have no monopoly on enthusiasm for the Barry County Shorthorn Breeders' Association, of which W. L. Thorpe is secretary, is keeping the "beef pot" boiling. Among the leading breeders are George Doster, of Doster, with forty head; I. J. Maichell, of Middleville, with twentyfour head; Ernst Richmond, of Doster, with twenty head; H. J. Flower & Son. of Milo, with thirty head; Robert Williams & Son, of Middleville, with their Milking Shorthorns, W. L. Therpe, of Milo; Sherman Enesley, Peter Kunz and Robert Martin, of Hastings, who all have good foundation herds. Chas.
>
> Hattie Belle Val DeKol, with a Record of 208.44 lbs. of Butter in Thirty Days, and 4,470 lbs. of Milk. Owned by J. E. McElwain.

and have good foundation stock. Mr. ises of Chief Potentates and Most Dig- Mr. W. R. Harper, on his Thorn- Thorpe says: "We owe a whole lot of nified Runts. The big idea of all suc-apple Stock Farm near Middleville, our first year's success to Professor cessful cooperative undertakings is to has a group of young cows coming on Edwards of M. A. C., for his efforts to do business exactly as any good busi- that one would have to travel a long get us working together and along the

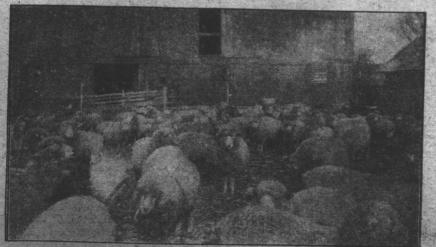
some good records and since devoting road to Woodland, we visited the farm are having their influence on various dealers, jobbers and manufacture A BOUT a mile out of Hastings we his personal attention to his farm and of F. J. Lawrence & Son. The Lawrence wisited J. E. McElwain, secretary stock is getting things in shape to go rences have one of the best Duroc Jerof the Barry County Holstein Breed- after bigger game. At the head of his sey herds in Michigan. At the head ers' Association and breeder of regis- herd is Veeman Pontiac Lakeside Lad, of the herd is one of the best sons of tered Holstein cattle. Here we found an excellent young sire, whose six that famous sire, Taxpayer's Model. a foundation herd of large, growthy nearest dams average 32.05 pounds of Among the sows were large, growthy cows from the best lines of breeding. butter in seven days. This is one of individuals of refined type and the from Mr. H. E. Risling for one thou- Michigan. His sire, Alcartra Pontiac rence was formerly president of the for new conditions and travels about sand dollars, a son of his famous cow Butter Boy, is rapidly coming to the County Farm Bureau and has always the country with his ears and eyes Grace Oesterboon Hengerveld and front as a sire of great producers, and taken an interest in its activities. He open. "I am here to tell you," he re- from his herd sire described below, when his daughters reach maturity he grows pedigreed seed and from his

one of the highest record cows in hundred and thirty acres of land de-At Mr. Risling's farm near Wood Michigan, whose thirty-three-pound voted to dairying, hog feeding and pothe day dreams of a lot of fellows who land we found Holstein cattle of the record completed a three-generation tato growing. Mr. Smith is a crackerjack dairyman and is never content blanket policy on a large portion of ity. Thirteen of his cows averaged Other well-known Holstein breeders unless some of his cows lead in the

Charles Cridler's two-hundred-acre

mile from Woodland, where he feeds lambs and





A Bunch of Range Ewes on the Farm of Mr. Williams, who has Generally Found Good Money in Handling Western Sheep.

Middleville, is president; C. Coulthard and handicraft work. of Hastings, is vice president.

ecutive committee of the Michigan vice-president and secretary and treas- eral farming and breeds Red Poll cat- he lives and conducts a general farm-State Farm Bureau. When asked for urer, and appointing a man in each the. He also grows quite an acreage ing business. Stands for progress and a brief outline of what the State Farm school district to act as committee of potatoes. Bureau could do for the women on the men. They receive notices of meet-ability. not ready for publication, but you can Bulletin is maffed to these leaders, practices general farming, breeds farming and stock feeding business. mand for such kind of field work. The mitteemen have cards which they use workers. to make better use of all of the lead- executive board is made up of a rep- Eli Hall has a one hundred and fifty- two hundred and fifteen acres near ers who are avalable for such work. resentative from each township. Boys' and Girls' Club work and our rural schools are two questions so plans for conducting our club work through the rural schools; thus giving every boy and girl equal advantages."

No description of Barry county's agricultural activities would be complete without mentioning the efforts of the Barry County Agricultural Society to make the county fair one of the best in Michigan. For six years such men as W. L. Thorpe, W. R. Harper, John Dawson, P. A. Shelton, Robert McKibben, Elmer Risling, Robert Martin, John Hinckley, Fred Lawrence and others have worked together to make the fair an outstanding success.

Last year two hundred and fifty purebred cattle were on exhibition, the attractions were equal to those at many state fairs and every effort was made to give the people a big, clean and educational fair. Barry was the first county to hold a night fair and one of the first counties to have the fair grounds lighted with electricity. The best day's attendance last year was twenty-two thousand.

This year the fair association and the Barry County Farm Bureau are cooperating to make up one of the best farm crops exhibits of any county fair in Michigan. Prizes ranging from twenty dollars to fifty cents have been listed by the fair association for the best exhibits of grains and seeds. The farm bureau has distributed seeds in each township and farmers are taking a keen interest in the contest.

C LUB work has not been neglected in Barry county. During the summer of 1919 Miss Nathalia Vasold had charge of the work. Seven canning clubs were organized throughout the county—the Middleville Hastings Canning Club; Hickory Corners Canning Club, Cressey Canning Club. Pine Lake Canning Club, Lakeside Canning Club, Rutland Canning Club. Each of these clubs made an exhibit and a team representing each club gave a demonstration of cold pack at the county fair. Hickory Corners Canning Club won first prize having canned over three thousand jars of fruit, vegetables and jellies. Marguerite McElwain, member of this club, secured second place in the state in first-year canning work, canning almest four hundred jars. The Middleville team won first place in the district contest entitling them to a trip

jects of this organization is to induce did work. The enthusiasm for clubs is Farm Bureau. bee-keepers to clean up and prevent increasing. In the rural schools about A. T. Shepard, vice-president, owns can fight when occasion demands.

work will be less scattered. I am also week and on Tuesday they are listed experience and natural ability. and to make the work more direct and post office or other public places. The work.

Board of Directors.

closely interwoven that I am in hopes hundred-acre farm near Delton, where square deal for the farmer.

Another organization that is doing pionship of the stae. They scored Barry County Shorthorn Breeders' As- tend to benefit his community. good work is the Barry County Bee- highest in the contest and were given a sociation and one of the hardest work-

disease from spreading among the thirty serve hot lunches and there is a large farm, and practices diversified bees of the county. John Dietrich, of great interest in garment-making clubs farming. An active cooperative work- twenty-acre farm near Nashville and er, and highly respected. Lives at practices general farming. Is ther-

MRS. JOHN C. KETCHAM, of Organized on the township basis. lives on his two-hundred-acre farm G. A. Garbutt has a hundred and Hastings, is a member of the ex- Each township having a president, near Doster, where he practices gen sixty-acre farm near Middleville where Has experience and wants quick action.

with home demonstration projects and such as coming sales, wants and sched- work that tends to help his communi- friends. know that there is an increasing de- ule of meetings. These district com- ty. One of the pioneer farm bureau

interesting a larger number of farm vertise for sale or wanted, and mail to Cressey and is much interested in the C. White Leghorn fowls. A city man women in each community so that our the County Farm Bureau office each poultry business. Well qualified by who has made good in the country:

and the improvement of our rural The bulletins are kept so that each and operates a one hundred and fifty- ing and is active in all work of a coschools. It seems to me that one of member in the districts may see them. acre farm devoted to general farming, operative nature. Chairman of Marour really big problems is to correlate Various ways are used, some have a Has served as supervisor of his town- keting Committee and has had expeand unify all of our present agencies blackboard, others are put in the local ship and is interested in cooperative rience in institute work.

> acre farm near Shultz and practices general farming. Has the reputation Eli Lindsey, president, owns a five of being a stickler for justice and a

fa, corn, clover and wheat. It is one to the state fair at Detroit to compete ness which includes feeding cattle, farm near Nashville. Is active in all of the best farms in Barry county. with four other teams for the cham-sheep and hogs. A member of the social and political movements that

W. H. Shants owns and operates a keepers' Association. One of the ob- loving cup in recognition of their splen- ers for the success of the County dairy farm and breeds Holstein cattle. Has served in the state legislature and

Glenn Worting has a hundred and

Frank Parmele has a farm of two farms of Michigan she replied: "I ings and in turn inform the members Charles Campbell owns a one hun-hundred and fifty-six acres near Bedhave several things in mind that are of their district. Every Tuesday a dred and thirty-five acre farm and ford where he practices a general say that I am very much in sympathy which gives them special information Shorthorn cattle and is active in all Is progressive and has a large host of

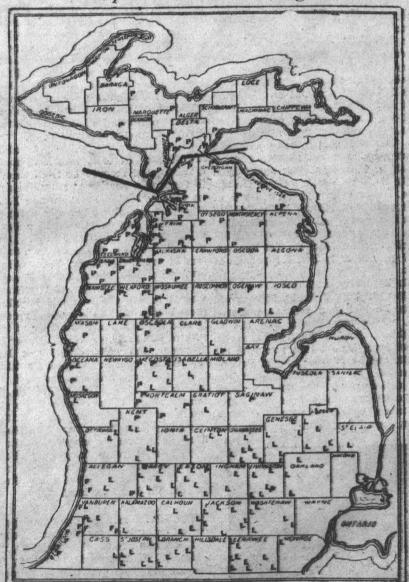
George Hatch owns a farm of eighty acres near Lake Odessa where he great problem is to devise means of filling out anything they wish to ad- Fred Elliott owns a fine farm near breeds high-class Jersey cattle and S.

R. B. Walker has a splendid two deeply interested in the boys and girls in the weekly bulletin free of charge. Fred A. Smith, of Hastings, owns hundred and forty-acre farm near Irv-

> A. N. Williams owns a good farm of Hastings: Is in favor of all movements to better the farmer's condition. Can be depended upon to fight if necessary.

H. L. Rising, a successful farmer that we may succeed in working out he conducts a general farming busi- H. J. Calkins has an eighty-acre and Holstein breeder. A leader in Barry county and an experienced leader in better farming movements.

Cooperation in Michigan



THE letters on this map shows the approximate location of the local Potato (P), Live Stock (L), and Fruit Growers (F), Cooperative Associations in the state. If one refers to the map in the May 8th issue where the location of the various sugar beet growers' local associations is indicated he will have a general idea of the extent to which our Michigan farmers are cooperating in carrying on their business relations with each other and with the outside world. There are many cooperative enterprises in the state not listed here and of which we have no record. But what is here shown carries home the idea that the farm people of Michigan are thoroughly convinced that the principle of cooperation is correct. The prodigal manner in which our farmers are joining the Farm Bureaus is also significant.

FARM POPULATION DECREASES.

THAT there was a big shifting of the population of New York state from the farm to the city in 1919 is shown by a recent statistical investigation by the New York State Agricultural College, combined with the United States Department of Agriculture. The statistics show that during the past year more than three per cent of the people on farms left their homes and migrated to cities. This is in spite of the fact that farm wages are much higher than ever before, and the farmer is receiving very high prices for his

A canvass was made of the farming communities throughout the entire state. Particular attention was given to the conditions on four thousand representative farms of various kinds. The results of the investigation showed that during the year about thirtyfive thousand men and boys left the farm to go into other industries, and about ten thousand went from other moustries back to the farm. This made a net loss to the state of her farming population of fully twenty-five thousand people.

This shifting has left more than ten per cent of the habitable homes on the farms vacant. At the present time there are probably twenty-four thousand empty farm houses in the state.

These conditions are hard to explain. In spite of the fact that the farm laborer received nineteen per cent higher wages in 1919 than in 1918, the number of hired men has been greatly reduced, so that there are now only one man for every three farms. Wages for single hired help averages \$52.25, in addition to board, during the year, while married men received \$68.50, in addition to a house for himself and family and some farm products, instead of board. Such high wages as these are unprecedented in the history of the state.

Providing this exodus from the farms continues during the coming year, there will be a much depleted farming population by 1921. This will mean fewer crops raised, of course, and continued high food prices will probably result.

Producing and Distributing Good Seeds

T the recent meeting of the board of directors of the Michigan Crop Improvement Association, action was taken to provide a means whereby every farmer in Michigan may be supplied with the highest quality of seed obtainable.

For several years this group of Michigan farmers, specializing in the profrom nearly all parts of the globe.

Seed Department. sult of which will be of great benefit it is produced. to the entire state.

provement Association, functioning as In cases where there exists a sur- grains much has been done with for- yielding seed of the best quality.

How the Michigan Crop Improvement Association and the State Farm Bureau Seed Department will Corrolate their Efforts to give Farmers the Maximum of Service.

A. L. Bibbins, Secretary Michigan Crop Improvement Association

duction of pure seed, have furnished a in the past, will continue to produce plus of seed in the county, the local adapted alfalfa seed. large supply of exceptionally high qual- pure seed, the secretary issuing the seed department will pool this with the ity seed and helped in placing the state seed list giving description and sources state seed department, who may util- the sensational Annual White Sweet of Michigan at the forepart as a seed of inspected and registered seed. Any- ize it to meet deficiencies that may Clover. It is expected that this will producing state. Not only have the one may obtain this list from the sec- exist in adjoining areas. results attracted the attention of farm- retary and procure this seed directly By this arrangement the Michigan- permit distribution in the spring of ers throughout America, but those in from the producer, at the same time grown seed will be available first for 1921. foreign lands as well. Inquiries con-receiving the association guarantee as home use and then if a surplus exists cerning Michigan seed and this seed- to genuineness, purity and quality out-of-state demands will be met. In plats is distributed through the Michiproducing organization are reaching The seed department of the Michigan this way such situations as existed gan Crop Improvement Association to the secretary from every state in the State Farm Bureau will function in with our 1919 clover seed crop may be farmers who are tried and proved seed Union, also from Canada, Scotland, facilitating the movement of quantity controlled. It will be remembered that growers. In this manner additional in-England, France and Australia, in fact, lots, especially carload shipments to last winter large amounts of Michigan- creases are made and a sufficient out-of-state purchasers.

they feel that their aim should be to ing agent to members of that organi- al handling and transporting of the stock place the best of seed on every farm in zation, working through the various seed, but very expensive for those who Michigan. To accomplish this purpose County Farm Bureau Seed Depart-received seed that is far inferior to the association is cooperating with the each County Farm Bureau will be as shipped out of the state. State Farm Bureau in formulating certained, and the supply of registered plans to carry out the proposed pro-seed produced within that county util-

that their members make a substantial Row barley.

Origin and Increase of Seed.

on its increase plats pure-line selec- registry number.

age crops, especially alfalfa and the Annual White Sweet Clover. At present, Frank A. Spragg, plant breeder, has strains of alfalfa that are not only weil adapted to Michigan conditions and produce large yields of hay, but offer promise as seed producers. It is hoped that some sections of Michigan may become producers of hardy and

The college now has five acres of produce a sufficient supply of seed to

The seed produced on the increase grown clover seed were shipped out-amount of seed is soon available for Cooperation with State Farm Bureau Plan 2.—The Michigan Crop Im- side the state. This spring we faced the planting of large acreages. To inprovement Association will produce, such a shortage of clover seed that it sure the maintenance of purity, pure-Athough members of the Michigan inspect and register the seed as in became necessary to bring some in line selection and increases are made Crop Improvement Association are Plan 1; the Seed Department of the from outside sources. Not only was each year, and thus there is always justly proud of the results obtained. State Farm Bureau to act as distribut- this expensive because of the addition- available a supply of foundation-seed-

Inspection and Registration.

This pure seed is safeguarded by the and be of the most possible service, ments. In this manner the needs of the Michigan-grown seed that was very vigorous and rigid inspection system practiced by the Association, by which the identity, genuineness and Most of the registered seed grown purity of the seed is absolutely known. ject. Mr. J. W. Nicolson and Mr. R. V. ized to fill the local demands. This in this state was originated and in- Those fields which measure up to the Tanner, represented the farm bureau will be a great saving in the transpor- creased at the Michigan Agricultural high standards established by the at this joint meeting and a strong bond tation, and seed of high quality may College. At the present time the Farm Michigan Crop Improvement Associaof cooperation was established, the re- be used in the same locality in which Crops Department at the college has tion are certified and the seed given a

To aid this farm to farm movement tions of the following well-known va- By the cooperation of these two pow-There are really two sets of plans, of registered seed within the county, rieties: Rosen rye, Red Rock wheat, erful farm organizations, the Farm Bueither of which will be of aid to any- the directors of the Michigan Crop Im- Wolverine and College Wonder oats, reau Crop Improvement. Association one desiring to take advantage of the provement Association recommended Michigan Black Barbless and Mich-2 thought that the farmers of Michigan may always be assured of a readily Plan 1.—The Michigan Crop Im- reduction in price for these local sales. In addition to the work with the available supply of adapted and high-



Board of Directors and Advisors of the Michigan Crop Improvement Association.

Rural Leadership and the Rural Teacher

By Chas. H. Smith

that we cannot afford to be teachers, certainly, but the educate our boys and girls.

schools. For "a republican form of ers. The teachers who have real abil- ing our teaching force. an educated people, is the worst for sion which pays them such a beggarly teaching force of this country strikes ferior teachers. "But aren't we doing this right both with college training and natural the cure for these things is largely ed-

JERE is one public institution now?" you ask. We are employing aptitude—cannot afford to do so be ucation. Some of these pernicious docclose-fisted with, and that is our ity of them are not professional teach- They go to other occupations, weaken- make no progress among an educated people. However, we can't hope to government, while being the best for ity are not remaining long in a profes- Anything that tends to weaken the cure them by the employment of in-

an uneducated people." If this axiom pittance as most school boards dole at the heart of the government. An A professional teacher in your school of government means anything at all out. Their worth is quickly recognized efficient force of teachers must occupy is worth more to the community than it means that citizens of our country in other lines of industry and they are the schoolhouses of our country if we almost any other professional man who must be educated if we are to retain hired at double and sometimes treble are to progress in the business of liv- may serve you. The proper molding our present form of government intact, the amount they were paid for teach- ing. Education of the masses is the of young lives during the period when And all of us certainly do want to re- ing. Their places are filled to a great only solution for a great many prob- they are most plastic is a highly imtain our government intact—which be- extent with non-professional teachers. lems with which we are confronted, portant matter. From the standpoint ing the case we must employ profes. This is why the teaching force of our Industrial unrest—the conflict between of the child's welfare and the nation's sional teachers throughout the land to country is deteriorating. Men and capital and labor, radicalism, bolshe- welfare-indeed, we may say of huwomen, specially equipped to teach—vism, the I. W. W.'s, corrupt politics—manity's welfare—we should educate

News of the Agricultural Worl

TRAFFIC DEPARTMENT OF THE a basis so they can handle the grain MICHIGAN FARM BUREAU OPENS.

problems the bureau opened a traffic facturer, which will eliminate unnec- er, distributor, and consumer." department June 1. Offices have been essary handling and cost. obtained in the Norris Block, Grand The Illinois Grain Marketing pro- CONTROLLING GYPSY MOTH IN Rapids, Michigan, in charge of Frank gram was outlined to the presidents E. Coombs, for several years with the and secretaries of the eight middle a department in any manufacturing a similar meeting at Ames, lowa, on concern, or board of commerce, and June 22. work in the interest of the State Farm and community farm bureaus in the course, is to assist farm bureau memefficient and economical a manner as distribution of seeds by congressmen. coming in.

state and interstate varieties, affect- justed. ing the farm bureau interests will be investigated.

Classifications will be closely watch-This is to see that ratings and by farm bureau members are not in-readjustment is proposed by Herbert all varieties of trees and verdure. creased unduly or altered unfavorably. Every possible effort wil be made to keep the State Farm Bureau, County and classifications and changes in the this will be done at a nominal fee.

spection bureau of this traffic depart flation of credits since the armistice help much, either." ment will be operated. This is for a has extended speculation and profiteeralso will be efforts to have the cars er and his market, and has likewise isolation of infested areas. properly inspected by shippers before increased the prices of the supplies loading for their protection against that the farmer must buy as well: loss and damage on shipments.

sorts of difficulty in getting their ship- distributors to collect taxes for the into New York state. There is a large and their coal from the south.

ILLINOIS STARTS GRAIN MARKET ING.

permost in mind. Wm. G. Eckhardt, the margin; Director of the Grain Marketing Dein the state, starting June 1 and con- increases the margins unduly; tinuing three weeks. The program of and others interested in grain mar-

The aim of the whole program is to not contend with; make a steadier flow of grain on the market and steadier prices. The asers to be in a position to market their menace to the American farmer. own products. There are six hundred farmers' elevators in the state. The association will put out five men to assist organization of new elevators and help organized elevators to get on

The senate continues to refuse to per-

PROPOSE'S BOARD TO DRAFT FARM POLICIES.

Hoover. Such a commission, Mr. Hoover says, would find:

thoroughly acquainted with ratings prices at the points where the world creosote. streams of food meet; that such prices in consignment. It is intended that sale at these places where competition meets is a deduction from the farmer's

"That the war deterioration in our transportation facilities had created ILLINOIS farmers are launching off periodic strictures in the free flow of MEASURE TO STANDARDIZE BASa project of marketing their own food from the farm to the consumer; grain. In the building of a member has compelled the farmer to sell his ship of eighty thousand farmers, the product during a local glut and has Illinois Agricultural Association has compelled the consumer to buy during

meetings in each congressional district rect, expensive, wasteful, obsolete and

"Such a commission would seek the half bushel, five-eighths bushel, on

ducted along the lines similar to such again be the subject of discussion at line of New York state from Vermont ful to manufacture, sell or offer for should not cause serious alarm," says sale other than the sizes herein set out. D. D. Ward, associate manager of the Onondaga County Farm Bureau. "The on the measure and the committee be-Bureau, and of the scores of county HOUSE STANDS BY FREE SEEDS. moth has already intruded into sec- lieves that the lack of uniformity in tions of New York, and has been ex- the sizes and dimensions of shipping Its principal endeavor, of THE house refused a second time terminated. What has been done once containers for fruits and vegetables to accept the senate amendment can be done again—and forewarned as calls for their standardization by fedbers in obtaining their consignments, to the agricultural appropriation bill we are, we can do even better than eral statute. The hearings disclose and in delivering shipments in just as eliminating the \$240,000 item for free this. We can prevent the pest from that at the present time there are

"There have never been gypsy Routings for shipments will be fur- mit the free seed item to remain in moths in Central and Northern New nished any farm bureau member that the bill. All other differences in the York counties; that is, so far as the requests them. All rate cases of both senate and house bills have been ad-records of recent generations show. And by using vigilance there will not stave basket, and the splint basket, be now. It is one of those cases where prevention is far less expensive than cure, for this pest is especially hard to stamp out. Arsenical preparations to the honest shipper to have to comclassifications of the various commodi-ties and articles sold and purchased A policies for agricultural which destroy not only orchards but uses a container having the same ap-

"In combating them, too, parasites are bred that feed on the moths' lar- dorsement of the Department of Agri-"That the farmer's prices are fixed vae. Strict attention must be paid to culture, and will undoubtedly become Farm Bureaus, and local farm bureaus by competition with world wholesale all trees. Egg nests are painted with

"I believe the pest has been held embargoes, etc. There also will be bear only a remote relation to the well in check in recent years. How- efit to the fair dealing farmer and reservice on claims for farm bureau farmer's costs of production, and that ever, the cold winter of two years ago tailer of fruits and vegetables.-E. R. members, that is the securing of re-consequently any increase in the cost in New England seriously hindered dress for loss and damage shipments of placing the farmer's products on fighting the moths, for the low tem- MEMBERSHIP GROWS IN ILLINOIS. perature killed the parasites that are being bred to prey upon them. Of Also, as soon as it is possible an in- own receipts; that the continued in- course, the winter just finished won't

dual purpose, to assist the carriers and ing by expanding the borrowing facili- the need for watchfulness. He said ship of the Illinois Agricultural Assoalso to educate the farm bureau mem-ties to any food distributor who want- that the chances of the moths spreadbers in the correct and best method of ed to indulge in such practices has ing into New York were minimized by packing, loading of cars, etc. There widened the margin between the farm- rigid quarantines established, and the

Farms and Markets says that Com-"That the burden of taxation is missioner Wilson assures farmers that continue through the summer. The first function of this department wrongly distributed; that the excess the Bureau of Plant Industry is takhas been for the interest of the can-profits tax, as it works out, is an op ing extra precautions to keep the ners of the state. They are having all portunity for food manufacturers and moths from crossing the Vermont line ments of cans through from the east, government by adding them to the infestation in the Green Mountain margin between the farmer and the state, twenty-five miles from the line. our children as well as we possibly can. This means a renewal of the long bat- And the biggest factor in doing this is tle upon the nuisance.

. KETS.

A BILL now pending in congress in protection which farmers have a live interest lustrated best by comparing ourselves kept the big marketing problems up a local shortage-again an increase in fixes standards for hampers, round with a professional teacher. All of us stave baskets, and splint baskets for have certain academic knowledge-"That the whole marketing system fruits and vegetables. This bill, which understand the different branches partment, will hold a series of fifteen in many of our commodities is indi- was introduced by Representative A. taught in the schoolhouses of the coun-H. Vestal, of Indiana, provides five try and perhaps those of the colleges That our manufacturing industries one-half bushel, five-eighths bushel, marketing will be discussed by grain have developed out of pace with our one bushel and one and one-half bush. ed requirements. But unless we have growers, farm elevator managers, agriculture, and that our labor is being el, stating the number of cubic inches acquired certain special knowledge of drawn in thousands from the farm to each shall contain with the dimensions how to teach we must remain non-prothe town, at wages that farmers can of each, and seeks to standardize them fessional teachers, no matter how "That the organization of consoli- that can be lawfully used, thereby demic branches may be. dated buying of American produce by eliminating thirty different sizes now sociation believes the only way this European governments, and the conse in use. The same thing is sought with living we must have better education can be accomplished is for the produc- quent domination of our prices, is a respect to the round stave basket, ex- for our children. To have better edu-

of that community, whether it be stor- remedy for these things with that bushel, one and one-half bushel and age, drying of grain or financing farm- same common sense with which simi- the two bushel, making five sizes and ers for grain in storage. When this lar commissions of farmers met the eliminating fifteen sizes. The standard O assist members and cooperative work is well under way, it is planned great economic problems of the food splint basket sizes will be four quarts, organizations affiliated with the to have a farmers' clearing house or administration during the war and eight quarts, twelve quarts, sixteen State Farm Bureau in handling traffic brokerage to sell direct to the manu- with the same consideration for farm- quarts and twenty-four quarts, eliminating twenty sizes.

In recommending this bill the committee on coinage, weights and measures says its object and purpose is to standardize certain sizes of hampers standardize certain sizes of hampers. This traffic department will be coning held at the I. A. A. offices. It will advancing close to the houndary facility to the lines similar to th

> Extensive hearings have been held forty-nine dilerent styles of hampers being used and thirty-four sizes, these sizes ranging from the quart to fifty quarts. The same condition exists with reference to the round which is commonly known as the market basket.

> The committee believes it is unfair pete with the unscrupulous dealer who parent size, but in reality a number of quarts smaller. The bill has the enlaw. If it prevents the dishonest huckster from defrauding the city housewives, it will be a distinct ben-

E IGHTY-FIVE of the one hundred and two counties in Illinois now Mr. Ward was emphatic in accenting have Farm Bureaus. The memberciation is now 79,618. This means that many men have signed checks for three years, paying \$10.00 to the County Bureau and \$5.00 to the state. The report of the Department of Five county campaigns will be carried on in June. Organization work will

RURAL LEADERSHIP AND THE RURAL TEACHER.

(Continued from page 859). to provide them with a good professional teacher.

What makes a teacher a professional? Wherein is the difference between the professional and the non-BILL now pending in congress in professional teacher? This may be ildifferent sizes for hampers, one peck, —and we may teach school if we are one half bushel five eighths bushel so inclined after meeting the prescriband make them the only hampers great our knowledge of different aca-

If we expect to raise the standard of cept that the sizes shall be the one- cation we must employ better teachers and the only way by which we can get them is to pay them a salary commensurate with their professional ability and the responsibilities placed upon

"Little Theatres" for the Country—By F. W. Henshaw

of the fair.

tive of the spirit of life in the rural nonymous authorship. districts and capable of presentation by school children, young people and grown-ups in such communities.

The revolution in agricultural condiand, more strongly, during recent on pageantry and drama of the war months, has been no less marked in work council of the Y. M. C. A., the the play habits of the people than in collection is steadily mounting. other directions. Boys and girls on the farms in many sections have learned to take physical exercise in folk selves have begun the writing of short games in much the same manner as dramas. The need for playlets in which have the children of the cities; the children take part is strong, and it is fathers and mothers have learned more likely a large proportion of these amaand more to come together in commuteur writers will deal with this phase nity gatherings.

But along with this new spirit has come the automobile and the city and its application to the country is in "movie," and the temptation has been strong to desert simple home attractions of other years for the "bright ner, state club leader. Itghts" and nervous excitement of the neighboring centers.

Leaders in the movement for better recreation believe that if the right entertainment is supplied, dwellers on ation with neighbors at home. The depth and scope of neighborly enterstate physical education department under Floyd Rowe is lighting the way in outdoor games, while the state recreation commission and the extension department at M. A. C. are attempting to spread broadcast the gospel of community gatherings.

To cooperate with both of the two last named organizations the Rural Sociology Club was organized at M. A. the advisory leadership of C. B. Mitchell, assistant professor of public speaking in the English department. purposes of the club were two-fold: First, to get together, as soon as possible, a collection of plays and playto work out a few of these with respect to parts, stage settings, cosmight be demonstrated.

Student officers are: President, S. made a 'hit' with their auditors." M. Farr; vice-president, Miss Marian

girls' clubs, is corresponding secretary. ings and other neighborly sessions. She will act as a go-between for mem ascertain its best solution.

ISITORS at the Michigan State The club is now at work on the task Fair at Detroit next August very of cataloging suitable plays. Some of likely will have opportunity to those already listed are: "What Evwitness the beginnings of one of the ery Woman Knows," by Mignon Quaw, most significant recreational move- of Bozeman, Montana; "The Converments now affecting country life in sion of Mother," by the same author; Michigan, in the "Little Theater" dem- "Kindling the Hearth Fire," by Estelle onstrations to be given by the Rural Cook, of the University of Minnesota; Sociology Club of M. A. C. in response "Back to the Farm," by Merlin Shumto invitation from officials in charge way, also of Minnesota; "Jackdaw," of the fair. and "Workhouse Ward," by Lady It is planned to present each day a Gregory; "Neighbors," by Zona Gale, one-act play which is both representa- and "Gammer Gurton's Needle," of an-

Rural dramatic material is surprisingly scarce, but by communicating with various agricultural colleges and publishing companies and by consult tions and practices during recent years ing the list prepared by the committee

> In order to meet conditions peculiar to Michigan, several members themof the problem.

> That this conception of the drama sympathy with actual conditions is shown by the testimony of R. A. Tur-

> "The idea seems to be springing up in widely scattered sections of the state simultaneously," says Mr. Turner. "In communities where the residents are most keenly alive to the tainment, short plays of this kind already are being staged. Some of them are written by local amateurs.

"Recently I have seen four which impressed me strongly. One was 'The Making of Poorville,' given by handicraft and garment-making clubs at Tonkey School, Au Gres, Arenac county; another was 'The Rejuvenated Farm,' presented in Branch county; a C. more than two months ago under third was 'Making the Best Better,' given by the Boys' and Girls' Clubs of Manistee county; and the last 'The Gardener,' written by club members in Calhoun county and presented in one of the ward schools in Battle Creek.

"These dealt with such subjects as lets suitable for preparation and pre- the effect of the introduction of a sentation in the country, and second, corn club on the practices of an en tire community, or the effect upon a backward household of the entrance tumes, etc., so that their practicability of its boys and girls into calf and canning clubs. Without exception they

In most farming sections, however, Ward; secretary, Miss Mary E. Ran-the only opportunity of the community ney; treasurer, F. P. Adolph; chair-for expression in dramatic form is the only opportunity of the community man of publicity committee, R. M. found at Christmas time in the exercises at the district school. But there Miss Grace Van Heulen of the Ex- is an endless field in the Grange, tension Department, state leader of Farmers' Clubs, and Gleaners' meet-

It is the aim of the members of the bers of the club and outside interests. sociology organization either to write For instance, if any community has a or to find dramatic material which particular problem to be solved, she goes straight to the heart of the joys will make thorough investigation and and sorrows of life as it is lived today on the farms.



Making the Shoe Fit the Foot

NE of the outstanding features of the efficiency of the Standard Oil Company (Indiana) is its ability to expand to meet conditions.

In 1919 there were 1,434,909 more motor vehicles in the United States than in 1918.

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Educators Consider Rural School Problems

Conference on Education at Washington Reveals Alarming Situation.

in Washington. The leading topic of Claxton, reports to the Bureau of Ed-boards, he declared. discussion was the rural school situa- ucation indicated that between 18,000 thousands of children who were not requirements. More than 300,000 teachreceiving any school education, and of ers are now teaching with less than the scarcity and inefficiency of rural the minimum standard of qualificateachers.

In opening the conference, United States Commissioner of Education P. of education, Russell Sage Foundation, president of Iowa State College of Ag-P. Claxton, said, "the American public said the public schools of this country riculture. Dr. Pearson reviewed the must decide, and that quickly, wheth had doubled in efficiency in fifty years, development of the land grant colleger it wants universal education or not. and they are now only half as efficient Latest figures obtained by the Federal as they should be. He presented fig schools are doing a large work in Bureau of Education show that be- ures showing that there are seventy- training young men for teachers of agtween 300,000 and 400,000 children in six boys in high school for every one riculture in the country high schools. olina, whose subject was "The Rural the United States last year were with hundred girls. out schooling. Approximately seventy per cent of the people of the United States left school at fourteen years of age. Speaking of the after-war conditions and the vast debt that has accumulated, Dr. Claxton said that these debts must be paid by the wealth of the people, and wealth depends upon the people's education. Deploring the shortage of trained teachers, Dr. Claxton said that "next year there will be needed 120,000 new teachers for the solved by the consolidated school plan, industries. If the public can be brought, elementary schools. The total number of graduates of normal schools and trict schools were not adaptable to to the welfare of the nation we would colleges giving professional training for elementary teachers will not exceed 30,000, which leaves a shortage of 90,000 positions in the elementary schools to be filled by persons who have not had this kind of training." Approximately 30,000 teachers will be needed by the high schools, and the total number of graduates trained for teaching in these schools will not exceed 10,000, leaving 20,000 high school positions to be filled by persons who

tions.

versity, advocated the slogan, "For spent directly in the interest of the Every American Child a Competent farmers. Much of the money appro-Teacher." While sixty per cent of all priated for agricultural schools is used ates in the United States, five live in have a surplus of food again. It furconsolidation, and no state should pro- have no fear. ceed in a high-handed method in read- The school system of England was justing the school system.

ers from all parts of the coun- which was set by the educational au- ident David Felmly, of the Illinois ing, the schools are more and more try attended the recent national thorities a good many years ago. In State Normal University. A fine ideal-directing the students to a complete citizens' conference on education held January of this year, according to Dr. ism needs to take possession of school preparation for life. The teachers of

tion which was described as "a na- and 20,000 schools were without teach- neglected the spiritual side of life," ture conditions than to the past. tional menace." Speaker after speak- ers, and 45,000 schools were supplied said Senator Ramsdell, of Louisiana, er told of the deplorable condition of with temporary makeshift teachers, in discussing the relation of education of Iowa, advocated the establishment education in the open country, of the whose qualifications were below state to material wealth and national de- of a new department of education, and

> E DUCATION and Agricultural Production," was the subject of an Colonel Leonard P. Ayres, director address by Dr. Raymond A. Pearson, es, mentioning the fact that these He said that only a small part of the Dr. W. C. Bagley, of Columbia Uni- appropriations for agriculture are our boys and girls are enrolled in the in teaching other branches. The pubcountry schools, these schools have lie needs to be reminded, continued the states provide their children with the larger proportion of poorly prepar- Dr. Pearson, that agriculture furnishes ed teachers, and of every six illiter all the food, and that we will never the open country. Dr. Bagley declared nishes material for our clothing, and garding the National Citizens' Conferthat the school situation could not be two-thirds of the materials for all our because at least two-fifths of the dis- to realize the relation of agriculture

described by Sir Auckland Geddes, That there is urgent need for a high- British ambassador, who said that er appreciation of professionally train- while much attention was given to the

ANY school officials and teach- have less education than the minimum ed teachers was emphasized by Pres- fitting of boys and girls to earn a liv-England are mostly young men who "We have gone after wealth and are looking more to present and fu-

> Representative Horace M. Towner, its secretary a member of the President's cabinet. Congressman Towner urged federal appropriations for public schools, asking if it is of more interest to the nation that we should eliminate hog cholera than illiteracy. He stated that 250,000 out of every million young men in the draft could not read and write, and had to be sent to school before they were fit to be soldiers.

> Governor R. A. Cooper, of South Car-Schools," said the people of the south were beginning to realize that it cost less to support schools than to support illiterates. He declared that "the men who are leaving the rural communities are doing what they ought to do, until educational facilities as good as they find in the cities."

> The only criticism I have heard reence on Education, was that it was attended to a very large extent by persons who are drawing salaries, and not those who are paying the taxes and supporting the schools. None of the farm organizations was represented on the program, or in any other capacity, although these associations of farmers are taking great interest in rural educational problems. Nearly all of the speakers spoke for the farmers, but they were not from the farms. There was much said to arouse country people to the need of greater interest in education, but the rural folks were not



Certification of Seed Potatoes in Michigan

By C. W. Waid, Extension Specialist, Michigan Agricultural College

tion to inspect seed potatoes for certi-certification. fication. The first season's work along advisable at that time.

and pushed with energy.

sell seed potatoes. The Michigan Po- Michigan. a much larger quantity this year if the normal conditions insure a reasonably the seed certified. seed had been located for them. The good crop of potatoes. The two things Seed Department in the Michigan State which the growers should be reason-Farm Bureau is now ready to handle ably sure of if he asks for this inspection. Fields that fail to pass pure seeds and the Michigan Crop Im- tion service is that the seed which he the first inspection will not be given ers' Association in the matter of ad- transmissible diseases such, for exam- a field will be disqualified which shows cent.

this line showed that most of the seed drawn up and agreed upon by the offi- should be given good care, including show that the potatoes are practically in this state was so badly mixed or cers and a special committee appointed spraying, to prevent insect and disease free from serious infection of diseases diseased that certification did not seem by the Michigan Potato Producers' injury. Association. Any potato grower in During the period which has inter- Michigan may make application for vened the growers in many counties, the seed inspection service by complyespecially where the county agents ing with these rules and regulations. have been active, have taken particu- The inspection will be performed by lar pains to improve their potato seed duly authorized agents of the Michigan stock. The time seems ripe for the Agricultural College. Certificates of work of certification to be taken up inspection will be issued by the Michigan Potato Producers' Association bas-Wisconsin has been certifying seed ed upon the findings of the inspection potatoes for many years. Minnesota, service. The issuing of certificates New York, and several other states will be confined to the membership of have been certifying for a shorter time. the Michigan Potato Producers' Asso of the expenses of carrying on this None of these states are better situation. Any potato grower can become service. The balance of the expense ed for the growing of seed potatoes a member of the Michigan Potato Prothan is Michigan. Furthermore at the ducers' Association by the payment of applicants will be few, will be borne before potato digging time. Probably present time Michigan is in a better the annual fee of two dollars to the by the college. The growers whose some arrangement will be made whereposition than any of these states to secretary, H. C. Moore, East Lansing, fields pass inspection and who desire by the growers who care to do so may

IX years ago when the extension vertising and in other ways. The one ple, as scab, black scurf, (Rhizoctonia), at the first inspection more than ten

Application for inspection may be made directly to the Secretary of the Michigan Potato Producers' Association, or through the county agent's tional acre, should accompany the apfor this year, to have their stock certified by the pool their potatoes and sell through tato Growers' Exchange has handled The conditions which are required Michigan Potato Producers' Associa- the seed department of the farm bumany carloads of seed during the last for inspection service relating to soil, tion will be required to pay an addi- reau. This plan can be made a comtwo years. They could have handled seed and care are such as will under tional fee of one cent per bushel for munity proposition although at the

There will be two field and one bin

work with potatoes in Michigan thing needed now is the hearty coop- wilt, black-leg, mosaic, and spindling per cent of any of the common diseasfirst began plans were made for eration of the potato growers who sprout. The seed should be treated es or more than fifteen per cent if all the Michigan Potato Growers' Associa- have potatoes which are suitable for with corrosive sublimate before plant combined. A somewhat smaller pering to guard against the introduction centage will be required at the second Rules and regulations have been of some of these diseases. The crop inspection. The bin inspection must or varietal mixtures. Of the certified seed potatoes offered for sale not over three per cent by weight shall weigh less than two ounces and not over five per cent shall weigh over twelve office and should be in the hands of ounces. The growers will be held rethe secretary before July 1. The ap-sponsible for injuries due to most plication fee, which consists of five and improper handling after the petadollars for five acres or under, and sev- toes have been certified. Potatoes sold enty-five cents per acre for each addi- as certified seed when shipped must be in clean bags which contain one plication for inspection. The money hundred pounds net and be tagged so collected will be used to pay part with the authorized certification tag of

> A somewhat more detailed plan of start it will no doubt be largely an individual affair.

The use of a portable elevator reprovement Association has volunteered will use is practically pure as to va- the later inspection. The standard for duces the time required to unload grain to cooperate with the Potato Produc- riety and comparatively free from certification briefly stated are: That into the bin by about seventy-five per



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"We haul local growers' fruits and delicate vegetables, such as lettuce, on pneumatics—Goodyear Cord Tires—because they are marketed in better condition this way and buyers give first choice to produce so protected. Our Goodyear Cord Tires run everywhere in cultivated fields and in a sandy orchard and deliver mileages to 15,000."—C. C. McIntosh, of McIntosh & Andru, Truckmen, Palmetto, Florida

As statements like this make apparent, more and more farmers are preventing the bruising of fruit, mutilation of delicate vegetables and much shrinkage in livestock by hauling on Goodyear Cord Tires.

In this way they reverse the situation that existed when solid-tired trucks or wagons were used with a resulting loss in crops, stock weight and general income due to slow, jarring transport.

On the resilient Goodyear Cord Tires a farm truck delivers smoothly and quickly, safeguarding the original condition of the load so as to secure the best prices for it. The able pneumatics thus become important factors in the marketing of perishable produce and carefully fattened animals, as well as in practically all the work of raising and handling on and off the farm.

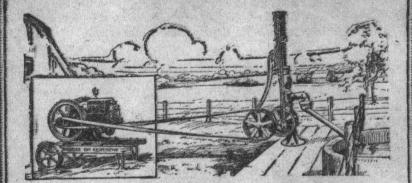
The excellent and often unusual mileages obtained from these tires attest the toughness of Goodyear Cord construction developed with that extraordinary manufacturing carefulness which protects our good name.

Farmers' records, detailing how pneumatics assist crop moving, motorization, chores and other activities, can be obtained by mail from The Goodyear Tire & Rubber Company, Akron, Ohio.

GOODFEAR CORDTIRES

The Farm Drudge

- Handyman
- Chore Boy
- Burden Bearer



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International Kerosene Engines are annually doing millions of hours of work: Annually taking the menial, toilsome, everyday farm jobs—pumping, sawing, separator turning, washing, grinding, shelling, etc.—off the lame shoulders of grateful men, women and children the nation over: Annually adding to the service that makes farm leisure possible and farm life more than ever worth while.

International quality in general and International Kerosene Engine quality in particular are everywhere admitted and admired. These engines are reliable, simple, long lasting and economical. Among the sizes—1½, 3, 6, and 10—is your correct size. See the International dealer.

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OFFER No. 101. The Michigan Farmer, one year ... \$1.00 McCall's Magazine, one year ... 150

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FLEMING BROS, 252 U

Farmers Oppose Nolan Bill

What Our Special Representative Uncovered at the National Capital.

unanimous in opposition to it.

bill it "provides for the raising of pub- for action. lic revenues by a tax upon the privileges of the use and enjoyment of pendent entirely upon members of lands of large value." All persons, congress coming from districts in firms, associations and corporations which the farmers compose a majority owning land in value in excess of ten of the voters, to secure legislation in thousand dollars, not including im their favor or to defeat harmful legisprovements, whether in possession or lation, their case would be hopeless. In leased to others, would be subject to an excise tax upon such excess at the urban population in the congressional rate of one per cent if this bill should districts, I have classified one hundred become a law. Where land is leased and twenty-five as purely urban, one and the value of the lease is in excess hundred and eight an largely urban, of ten thousand dollars such value and two hundred which are usually shall be deducted from consideration classed as rural districts. in determining the tax to be assessed against the owner, and shall be charge pear that there are more rural coned against the lessee. It shall also be gressmen than those coming from the the duty of every owner of any inter-cities, the facts remain that more than ests in land, the value of the fee or two-thirds of the voters five in places lease of which is in excess of ten thou- of more than five thousand population, sand, to report his interests therein while less than one-fourth of the othbefore March 1 of each year to the ers are actually engaged in farming. Commissioner of Internal Revenue on In the strictly agricultural states, the blanks prepared by him. It is require villages are dependent upon agriculed that the owner shall give such in ture, yet even in these states more formation in regard to the purchase than one-half of the people live in vilprice, sale value, and the like, as will lages and towns. enable the Commissioner of Internal. It is not uncommon to find represenpayment of five per cent and an addi- riculture. tional payment of one per cent for each month it is delayed, and no con-soldiers' bonus bill is a live issue just veyance made by him shall be admit- now. Representative Bertrand H. Snell ted to record of date on or after July of New York state, who is leading the 1 of any year, unless he shall have first fight against this land exploitation procured from the Commissioner of In- proposition, tells me that it is the ternal Revenue and exhibited to the same word for word as the old Monrecording officer a certificate that all dell but, and will mean the expenditaxes under this act are paid.

was drafted by a Washington lawyer members of congress are opposed to named Raiston, who is one of the at this kind scheme, but there is serious torneys for the American Federation danger that it may be put through of Labor. Congressman Notan is from congress at any time, by gag rule. The a San Francisco labor district, and is National Grange representatives will house. His bill, however, is backed by opponents of this clause in the bonus a group of manufacturers, who, it is bill to immediate action to secure its said, are willing to spend several hun-defeat .- E. E. R. dred thousand dollars in an effort to put it through congress.

The National Grange is strongly or posing the Nolan bill. Dr. T. C. Atkeson, the Washi count is taken of present taxes on real Michigan, on June 11, 1920. estate or on farmers incomes. They Mr. F. B. Hills, of The American are to remain as at present, and in addition to that a further burden of a bullet of the shoulders of the farmers of the country should this bill become a law."

The opposition of the American Fedoral and the shoulders of the Samuel and the shoulders of the Samu

tee on Ways and Means and ordered at noon.-G. C.

HE Nolan land tax bill, H. R. printed on February 7, 1920, and here 12,397, is much in the public it will probably remain unless brought mind because of the publicity up by special order. The Washington given it by the recent referendum con-representatives of the National Grange ducted by the American Federation of and the American Federation of Farm Farm Bureaus, which showed that the Bureaus are bringing all the pressure farmers everywhere are practically at their command to bear against the bill, and are keeping a close watch to According to the text of the Nolan see that it is defeated if it comes up

If the agricultural interests were demaking a careful survey of rural and

While these figures may make it ap-

Revenue to determine therefrom, and tatives from districts quite largely urfrom such other data as he may ob ban, standing firmly in favor of legistain, the true value of the land hold-lation demanded by the farmers, while ings of the taxpayer. It shall further some lawyer from a so-called rural disbe the duty of the taxpayer in the trict, elected by the farmers' votes and event of a sale of all or any part of the whose home address is a country villand of which he has reported himself lage, may be lined up against nearly as the owner, to report to the Com- everything that the farmers want. In missioner of Internal Revenue, the the case of the Nolan bill it is evident price at which said sale was made. In that there are a considerable number the event that the payment is not of representatives who if they have made as directed by this bill, the tax opportunity will vote against it for payer will be subject to an additional other reasons than its effect upon ag-

The land settlement feature of the ture of unknown millions for the open-The Notan bill is sometimes referred ing up of swampy and arid lands for to as the Nolan-Ralston bill because it settlement. A large majority of the a leader of the labor forces in the issue a statement, aiming to arouse the

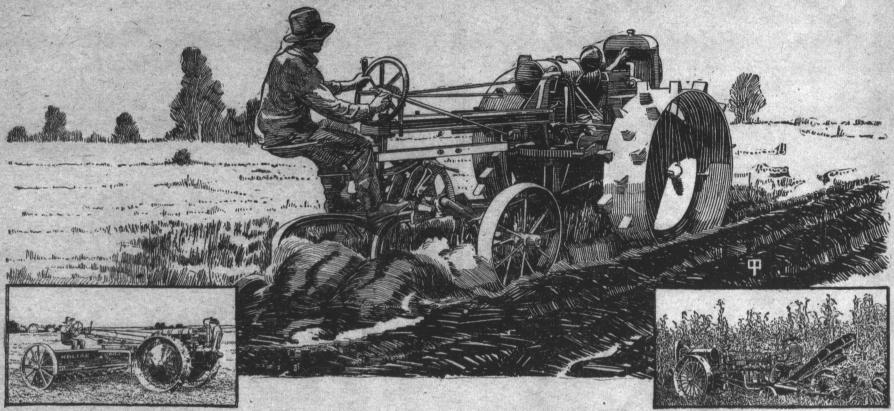
GUERNSEY BREEDERS OF BER-RIEN COUNTY MEET.

says it is a "deliberate effort to shift Association will hold their summer federal taxation to the land. No ac- meeting and picnic at Eau Claire,

The serious of the se

MOLINIE

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THE Moline Universal Tractor makes possible a real system of Power Farming instead of tractor plus horse farming. It does not reverse the old-established order of farming. It does not add expense—but cuts it.

It places the power of nine big horses where the horses stood. It is operated in the same manner as horses—from the seat of the implement. And it does all the field work that horses do, including cultivation of row crops.

It adds more power and speed to an old principle. And if this principle isn't correct, then farming has always been done backward, and you would be operating your implements from the horse's back instead of from the seat of the implement. Saddles instead of seats would have been in general use.

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NEUMITE EN TRETTA DE LA COMPUNE DE LA liet Every Atom of Wear from Tires

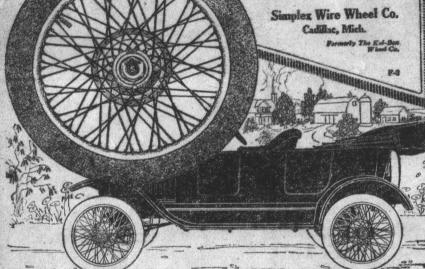
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When so equipped, you'll use your tires until they won't run another mile. How often you've removed tires be-cause you didn't think they'd last the next trip and you did not want to change them on the road.

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snow-white paint in powder form that is combined with a germicide or disinectant many times stronger than pure Carbolic Acid. It is neither poisonous or caustic; but kills lice, mites, fly eggs, etc., and is a preventive of the cona snow-white paint in powder form pure Carbolic Acid. It is no fectant many times stronger than pure Carbolic Acid. It is nor caustic; but kills lice, mites, fly eggs, etc., and is a preven tagious diseases that affect poultry and live stock—roup, glanders, contagious abortion.

Use It Instead of Whitewash and Disinfectants

It is ready to use as soon as mixed with water. It can be applied to wood, brick, stone or cement or over white wash with a brush or a spray pump. It does not blister, flake or peel off. The dry powder is unexcelled as a lice powder.

The use of Carbola means light, clean-smelling buildings and they mean healthy stock and therefore better production and larger profits. It is used and endorsed by thousands in all parts of the country. Get some today and have it ready for a rainy day. Your hardware, seed, paint or drug dealer has Carbola or can get it. If not, order direct prompt shipment by parcel post or express.

10 lbs. (10 gals.) \$1.25 and postage. 20 lbs. (20 gals.) \$2.50 del. 50 lbs. (50 gals.) \$5 del. Add 25% for points west of the Rockies For the convenience of large forms, Carbola is also packed in barrels that hold about 350 lbs, each

CARBOLA CHEMICAL COMPANY, Inc., Dept. X 7 E. 42d St., N.Y.C.

Canners Appeal for Supplies

tures, to avert the loss of at least fifty at any time during this year. per cent of the nation's seasonal food "There are now at the tin plate the food supply of the people.

special committee on tin plate and tin mills of the country which is necesfood will be heavily curtailed."

Up to the present time the can makers as important as the other. of the country have not been able to store with the canners more than thirty per cent of the usual advance deliveries for the coming season. There is in operation at the present time not more than twenty-five per cent of the can-making capacity of the country, and at no time during this year has the can-making industry been operating to more than fifty per cent of required capacity. This shortage in production has been caused by lack of tin plate. Can makers have used up the stock of tin plate they could secure, and are not operating more heavily today than above stated because they cannot get the tin plate. The time has come when, if very great shortage in cans and consequently in production of canned foods is not to be suffered, these conditions must be changed, and sufficient materials must be procured to operate can factories not only at full capacity, but at forced capacity by night work.

In order to avoid congestion in shipments during the packing season, these cans must be loaded and shipped to the canners' warehouses as rapidly as made and at the present time cars cannot be obtained for this purpose. At the present time cars cannot be obtained and moved to destination in can makers.

that the first step is to secure trans. in each district. portation of the present available tation of the cans to be made from urges that local option on the daylight this material to the canners. So far saving law be done away with. as these stocks will go this will get the suffocation, and provide an outlet. On of the organization.

HE canning industry, the can make the other hand, these stocks of tin THE canning industry, the can make the other hand, are only addering industry, and the tin plate in plate, while very large, are only addering industry, and the tin plate in plate, while very large, are only addering industry. dustry have united on filing a brief quate for temporary relief. If made with the Interstate Commerce Com- into cans and delivered they will take mission, urging the necessity for im- care of the earlier crops, but the later mediate preference in the car supply and larger crops are dependent upon and transportation of tin plate and oth- tin plate yet to be made in much er materials needed in can manufac-larger quantities than has been made

crops. Appeal is not made on the mills approximately two and one-half ground of any private interest or group million base boxes of tin plate packed of interests, but on the ground of na- and ready for shipment. To move this tional importance and grave danger to plate will require thirty-six hundred thirty-five to forty-ton box cars. The A. P. Strasbough, chairman of the normal production of the tin plate cans, of the National Canners' Associ- sary for the next two months is six ation, declared recently that "unless hundred and fifty thousand base boxes immediate action is taken to supply per week, requiring nine hundred and freight cars the production of canned twenty-eight thirty-five ton box cars to move it. These cars are required in "The growth of the canning industry the Pittsburgh, Wheeling, Mahoning, in recent years has made necessary and Shenango Valley districts chiefly, the manufacture and distribution early with other mills throughout Ohio and in the year and well in advance of the Indiana. Figures are not at the mocanning season of a very large quan- ment available for estimating the numtity of cans. If the can supply of the ber of cars required for the transporcountry were produced by makers and tation of coal, coke, steel and other held in their warehouses until the can-supplies, but it can be easily seen that ning season, the car supply and rail they are very large and just as vital road service of the country, even un- and important. As this tin plate is reder the best conditions and in normal ceived and manufactured into cans it times, has been proved quite insuffi- will require at least five hundred box cient to handle these cans during the cars per day to transport it to the canshort canning season. It has been the ners. These cars are needed in the practice in recent years of the can Pittsburgh, Baltimore, Chicago, Indianmakers to store with the canners on apolis, Wheeling, Cincinnati and Rothe ground where the cans are to be chester districts for distribution generused sixty to seventy-five per cent of ally throughout the adjacent states. It the cans estimated for use. These cans is the effort of this statement to imhave been shipped at the convenience press upon you the gravity of this sitof the can maker and during times uation and to indicate the chain upon when rapid delivery was unessential. which it hangs, each link of which is

THE CALHOUN COUNTY FARM BUREAU RESOLUTIONS.

HIS convention declares it to be its earnest desire and purpose to cooperate with the Michigan State Farm Bureau and with the National Federation of Farm Bureaus in efforts toward the improvement of agricultural conditions.

This convention urges early action in the establishment of Farm Bureau local cooperative organizations in evi ery market center in Calhoun county, where the need is sufficient to make such an organization an economical institution, and that each one of the so established cooperative associations be a part of the Farm Bureau, its managers and directors becoming part of the working staff of the Farm Bureau. It further urges that each of the cooperative organizations, now doing business in the county, work with the Farm Bureau in promoting the interests of the farmers.

This convention urges all farmers in Calhoun county who raise sheep, to take advantage of the offer made the Farm Bureau and pool their wool.

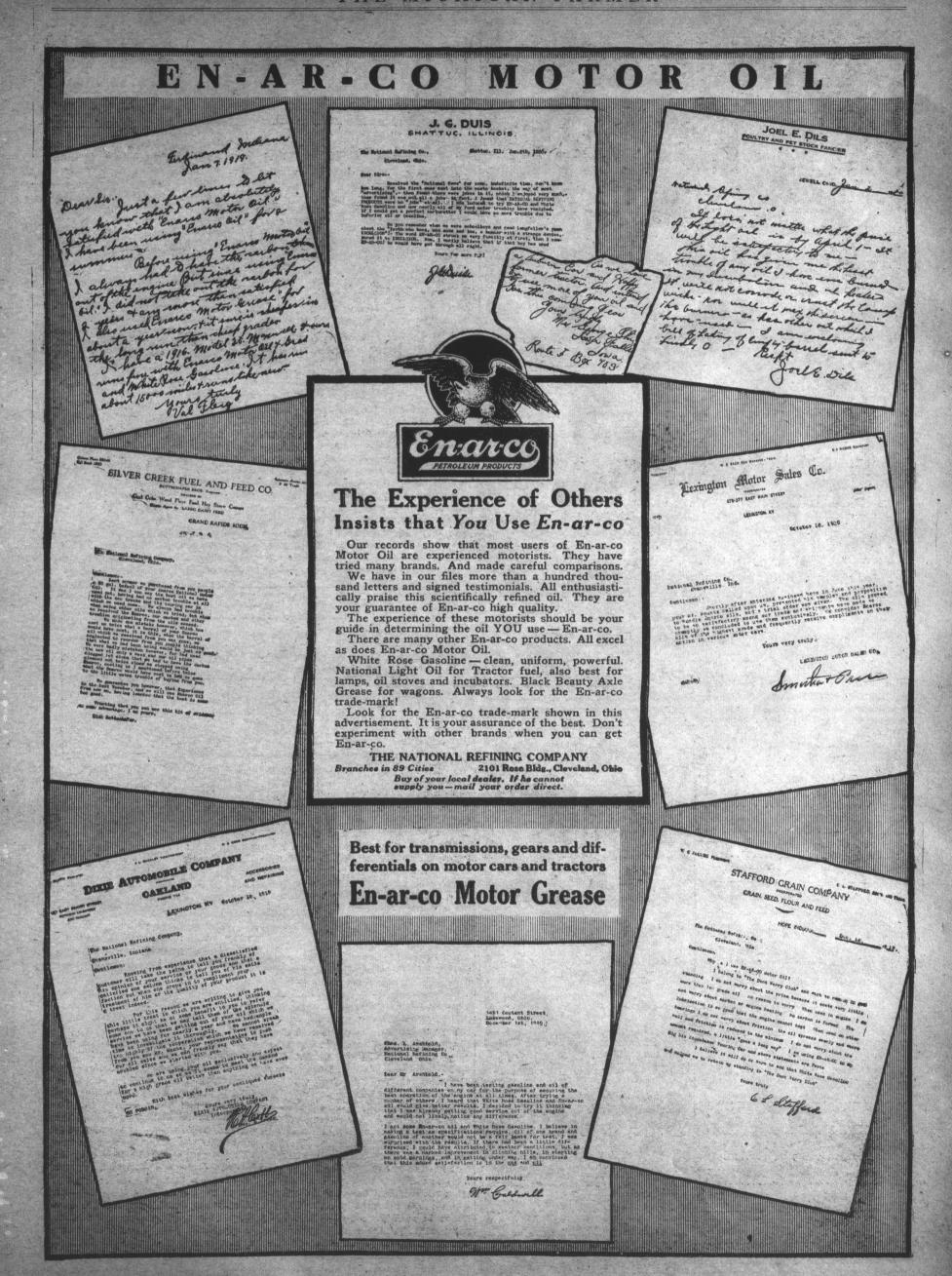
This convention favors the adoption of the school district plan of organizthe present limited production of the ing our towns in farm bureaus and urges the township officers to take im-"It seems to these allied industries mediate action in appointing chairmen

This convention favors the adoption stock of tin plate from the mills to the of central standard time in Calhoun can makers and facilities for transpor. county and throughout the state and

This convention favors the plan of can makers into operation, will get giving all the members of the Calhoun the cans into the canners' warehouses, County Farm Bureau whose major will relieve the warehouses of the tin financial interests are in the farming plate mills which are now choked to business the privilege to act as officers



When You Write to Advertisers Please Mention This Paper.



You May Not Wisely Delay Ordering Your 1920

CREAM SEPARATOR

There are a dozen reasons why this is so.

For three years it has not been possible to make enough De Laval machines to meet the demand. More than ever are being made this year, but the demand is still greater.



Cream Separators have advanced less in price than anything else used or produced by the farmer during the war years. If labor and material costs continue to advance so must separator prices.

Such an advance must very soon come from increased freight rates, if from no other cause.

Freights are still slow and uncertain. There may be unavoidable delay in getting a machine when you badly need it from this reason.

The flush of milk and hot weather are near at hand, when a De Laval saves most and an inferior or half-worn-out separator wastes most.

There all still other reasons, which a De Laval best demonstrates for itself. You will have no difficulty in observing them. Every local De Laval agent will be glad to afford you the opportunity to do so.

If you don't know the nearest agent simply address the nearest main office, as below.

The De Laval Separator Co.

165 Broadway **NEW YORK**

29 East Madison Street CHICAGO

SAN FRANCISCO

50,000 Branches and Local Agencies the World Over

A Good Clubbing Offer

OFFER No. 109.

The Michigan Farmer, one year	1.00
People's Popular Monthly, 1 year	.35
Home Life, one year	.35
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Household Journal, one year	.35

Total value\$2.36 All for \$1.70.

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Pictorial				
Woman's	World,	one	year	 .50

Total value\$4.50 All for \$3.75.

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The Michigan Farmer, one year. .\$1.00 Woman's Home Companion, 1 yr. 2.00 McCall's Magazine, one year 1.50

Total value\$4.50

All for \$3.00.

OFFER No. 112.

The Michigan Farmer, one year. \$1.00 National Sportsman, one year 2.00 Game Breeder, one year 1.00

Total value\$4.00 All for \$3.00.

OFFER No. 113.

The Michigan Farmer, one year .. \$1.00 Breeders' Gazette, one year 1.50

Total value\$2.50

Both for \$2:15.

Thresh with a Red River Special this year and save enough grain and time to pay the thresh bill. This is the thresher that beats out the grain—goes after every kernel and saves it for you.

Hire the thresherman with a Red River Special, or if you want a thresher for your own use, ask about our "Junior."

NICHOLS & SHEPARD CO.

(In Continuous Business Since 1848)
Builders Exclusively of Red River Special Threshers, Wind Stackers, Feeders, Steam and Oil-Gas Traction Engines.

Battle Creek, Mich. Battle Creek, Mich.

Our Service Department

House for Two Hundred Hens

We are planning to build a poultry house 14x45 feet, shed roof type. As it costs so much to build, would like to get the right idea on how to build. Seeing Mr. Kirby's answer to J. S., thought possibly he could help us. Do you think a shed roof type practical? How would you arrange the curtain space in front to be twice the area of glass? The house is to be four feet in the rear and eight feet in front, on about, an eight-inch wall. Are dirt floors practical where it is filled in to the top of about an eight-inch wall? Would like to have Mr. Kirby draw plans and give dimensions of what he thought would be practical for a poultry house with that amount of floor space. Would that size of coop, house two hundred Leghorn hens? How would you arrange roosts to be out of draughts with so much open space?

Washtenaw Co. C. A. T. The shed-roof type of poultry house is constant to be largely and is used extensively have a plant of the side walls of the house. R. G. K.

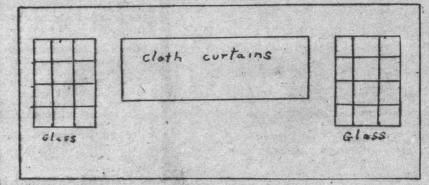
The shed-roof type of poultry house is practical and is used extensively by experienced poultrymen. It is high enough in front to permit the operator to work inside with ease, and all of the melting snows and rains drain off at the rear. This prevents much of the mud and water in front of the house where the birds walk. It is more simple to build than other styles of houses and most farmers can construct. We know of no duty to fence along the protection of the large strength of the protection of the cattle out when passing, but sometimes it is unavoidable, and he threatens all manner of things if I don't keep them out.—D. W. M.

We know of no duty to fence along the protection of the passing of the protection of the protection of the passing of the passing of the passing of the passing of the protection of the passing of them without the help of a skilled car- the highway; but on the other hand, penter. And labor costs money.

A practical plan is to allow a square lawful use of the highway, and if the

road is open to commons and into crops, and I have no way in driving

driving stock along a highway is a



the house. A cement floor covered doing so. with a couple of inches of sand makes a fine floor. If the walls are of cement to keep out rats and furnish a firm foundation, a good floor might be made all of sand. In that case it should be My hens are dying off fast. The filled in early in the summer so that first thing they show lameness in one it can dry out thoroughly before fall. If a house is damp because of a damp bunches or scales. What is the disfloor it is apt to result in colds and ease and what can I do for them? roup during the fall and winter.

A 14x45 house would be satisfactory birds would have to roost too close to best conditions.-K.

foot of glass to sixteen square feet of cattle escape from the driver without floor space and a square foot of muslin his fault and injure the crops growing curtain to each eight feet of floor on the adjoining lands the owner of space. They might be arranged in the stock is not liable for the injury, each laying house or section of a lay- provided he pursues the stock with ing house as indicated in the sketch. diligence and removes them as soon We do not like dirt floors in a poul and with as little injury as possible. try house unless the dirt is sand. Gar- In determining whether the owner of den loam becomes very dry and dusty the stock is negligent, it is proper to in a poultry house and the scratching consider that he knows the natural of the birds fills the house with dust, propensity of the stock to wander out making it unhealthy both for the birds of the way, and he is bound to use evand the poultryman who must work in ery precaution to prevent them from

MORE TUBERCULOSIS.

Gratiot Co. Subscriber.

This trouble is undoubtedly due to ut that only gives an area of 630 tuberculosis and it will be best to kill. square feet. We believe that 200 Leg. off the flock and start with new stock horns will do better if they have four after the soil has been freshened by square feet per bird or 800 square feet, cultivation and the poultry house thor-We would build the house 20x40 and oughly disinfected. Birds that have divide it in the middle two sections, died from the disease should be burneach 20x20. The partition would help ed rather than buried where they may to keep the house warmer in the win- be dug up by dogs. This is a very serter and the door between the two sec- lous trouble and there is no cure. It tions could be left open in the summer must be controlled by prevention and when more air is needed. When a this means breeding from the most house is twenty feet deep the birds vigorous stock that can be obtained: roost at the back of the house, far and giving the birds the best of care. enough from the open front so they Even then the best managed flocks are are not touched by draughts. We in some danger from tuberculosis, but would never wish to build a house less it will occur less often among the than fourteen feet deep because the flocks of hens which live under the

WALL FOR BARN.

As I intend building a barn 40x70 feet, would like a little advice about the wall. I think I will use cement. How strong should I mix it, and how thick should I make the wall? By using plenty of stone, does it need any other reinforcement, or will the stone prevent it from cracking? Would you advise any foundation under this wall, and how much?

Mecosta Co. H. B.

Mecosta Co. The average barn wall constructed of poured concrete is twelve inches thick, but if you are figuring on using field stone, the thickness of walls will depend upon the size of stones. If the stones are small and not over six inches in diameter, a twelve-inch wall would be satisfactory. If they are larger, it might be best to make it fourteen inches thick. The average width of a stone wall is eighteen

The concrete should be mixed as follows: One part cement to two and ene-half parts sand to three parts of crushed rock, where such material is available.

inches

Where you have a bank run, the mixture of one part of Portland cement to five parts of the bank run is satisfactory. The concrete should be mixed rather wet so that it will run in around the stone to fill all of the voids. It is very important that the wall be dense and solid.

It is not necessary to use any reinforcement in a wall twelve inches

It would be necessary to have a footing under this wall which should run down to solid earth and below the frost line, which is about four feet in your locality. This footing should be at least twenty-four inches wide and twelve inches thick. This would be an excellent place to use your stone.

We believe that it would pay you well to study the possibility of hollow tile for your barn. The present price of lumber, which has to be used for forms, makes solid concrete wall above the ground rather expensive. Hollow tile would make an excellent wall for barns, and the two or more air spaces in the wall makes a warm building in winter and a cool building in summer. It would be free from dampness. Its walls cannot absorb moisture, because of the impervious nature of the ma

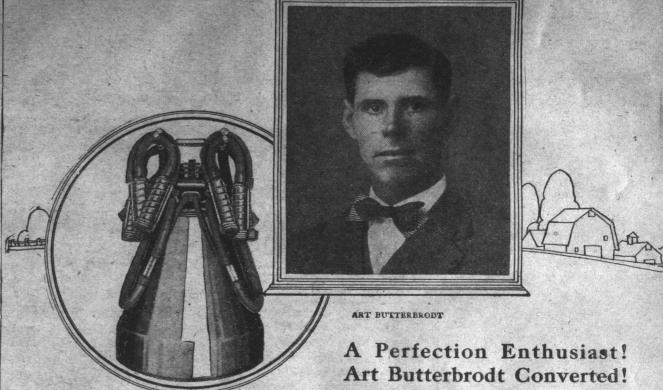
Animals quartered in such a building thrive unusually well, because a barn of this construction provides an ideal shelter. Due to its tight, perfectly bonded hollow walls, the animals within are protected from drafts. This means that the greater portion of the food given them will serve the purpose of such feeding. It might be well to put a little thought into the matter of concrete blocks for farm H. M. WARD. walls.

BUGS RUIN ASTERS.

Could someone give a remedy for getting rid of the tiny brown bug on asters? My bed of asters was ruined last summer by this insect.-Eaton Co. L. F.

Asters are subject to the attacks of more than one insect, and your inquiry does not state what portion of the plant was attacked. If these bugs worked above ground and ate the leaves an poison such a lead applied either as a dust or as a spray, will control them. If the insects that did the damage were the sucking variety then an arsenical would be useless. In this case apply some nicotine sulphate, such as Black Leaf forty. Directions on the bottle will tell how much to dilute it. With this material the insects must be hit in order to get results. Better results can be had if any of these poisons are applied when the bugs are small.-D. B. W.





"FOUR years ago", says Mr. Butterbrodt in telling how he became an enthusiastic user of a Perfection Milker. "I bought the second Perfection Milker sold in this vicinity. At that time this milker was generally unknown in this locality. while today it is generally recognized as the best machine on the market. I bought a Perfection when I was not wholly convinced of the practicability of any milker, but now I wouldn't part with it."

Cows Teats and Udders In **Perfect Condition**

"When my cows went dry I even feared that some bad effects would be revealed after freshening. However, I was surprised to find that after freshening my cows milked more evenly on all four quarters than they ever did when milked by hand.

"A year ago I milked my cows three times a day with the machine for a period of six months. At the end of this period the cows' teats and udders were in as perfect condition as ever."

The Best Hired Man

"The milker was just as willing to work three times a day wice. It never kicked and has never refused to work when I wanted to use it since the day it was installed in my barn. At the end of four years continuous use I am free to state that I find milking with the Perfection more satisfactory than hand milking. And the Perfection makes it easier to secure hired help and to keep the help in good humor."

It's Time For You To Investigate

Thousands of dairymen are putting in the Perfection Milker every year. It's the answer to the labor problem. Investigate for yourself. We'll gladly send you names and addresses of Perfection owners, together with a free copy of "What the Dairyman Wants to Know" the book that answers every question about milking machines. Today is the day to write.

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FENCE

A FARM WAGONS

ctric Wheel Co., 35Elm St., Quincy,

ORNAMENTAL

The Perfection is the Milker with the Downward Squeeze Like the Calf



M. V. Macinnes, 176 Jefferson Ave., Detroit, Mich.

Canadian Government Age

LINE FENCE.

There are adjoining farms with a road running through them so as to road running through them so as to leave part of each farm on both sides of the road; one of the farmers sells that part of his farm lying on one side of the road, and the adjoining farmer refuses to build any of the fence on that side of the road, claiming that all of his part of the line fence is on the other side of the road. What are the rights of the parties?—R. M.

No obligation exists apart from statute to maintain partition fences for the benefit of an adjoining proprietor; each must keep his stock at home at his peril. And our statute being in derogation of the common law must have a reasonably strict construction. The language of the statutes of the different states differ, and it is believed that the subscriber's question has never been passed on by our supreme court. However, it has been held in other states not having more favorable statutes, that the division made by agreement or by the fence viewers is operative only so long as the ownership on both sides is undivided. When the line on either side comes into different hands there must be a new division of the fence. Our statute provides: "The respective occupants of lands enclosed with fences shall keep up and maintain partition fences be tween their own and the next adjoining enclosure in equal shares."

J. R. R.

CONGESTION OF THE LUNGS.

We have a few chickens which breathe hard; their heads get black. This disease seems to increase. Will you advise me what the disease is and what to do for them?

Oceana Co. The trouble is probably congestion of the lungs, which has resulted from a cold or bronchitis. In such cases there is very difficult breathing and the comb will become bluish, due to the congestion and the fact that the bird cannot obtain enough air. The trouble may end in pneumonia and death or a fairly rapid recovery of the sick bird. This has been a cold spring with many raw windy days and this is possibly the cause of the sickness. The bet cure is in prevention and consists in keeping the flocks in the houses when the weather conditions are very had.-K.

RIGHTS OF LIFE TENANTS.

A deeds a piece of property to B, a relative, taking a life lease on this property. If B improves this property and pays the life lease every year, what would be his rights in case A should change his mind at any time? Can A cancel deed and take back the property?—R. R.

Such a deed can be avoided only on such grounds as would avoid any other deed, such as fraud or undue influence in procuring the execution of the instrument, or lack of mental capacity of the person making it, or the like. A change of mind amounts to nothing. If the court should order an annulment of the deed, the person making the improvements in good faith would be awarded a lien on the land for what the improvements were worth.

J. R. R.

PROVISION STORAGE CONTRACT.

Our local dealer advertised last fall that he would store potatoes until the price was up to suit the farmer and then buy them, the farmer paying the storage, so we hauled our potatoes to his warehouse and stored them there. When we got ready to sell he refused to buy them, at the same time buying from people who brought them in by the load, for market price, but our potatoes he would not take until the price was down to suit him. Had he a right to do this? Did he not have to do as he advertised? In this way he skinned us out of \$300. Can we make him pay the difference?—F. J.

This would look like a breach of Our local dealer advertised last fall

This would look like a breach of contract for which the storage mer chant is liable.



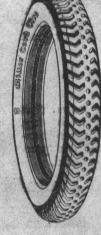
Tire cost has been cut in two

33,000 Miles

The Crawford Auto Co. of El Paso, Texas, report 33,000 miles from a Miller Cord Tire. We would like to know if anyone knows a record which can match

Tread Patented

Center tread smooth, with suction cups to firmly grasp wet asphalt. Gearedto-the-Road side treads mesh like cogs in dirt.



THE MILLER RUBBER COMPANY Akron, Ohio

Makers of Miller Red and Gray Inner Tubes the Team-Mates of Uniform Tires—Also Miller Surgeons Grade Rubber Goods, for homes as well as hospitals.

Miller Tire experts, in the past five years, have more than doubled their average tire mileage. They have cut the cost-per-mile in two.

They have perfected a tread which, by their tests, outwears the best of other treads by 25 per cent.

The demand for Miller Tires has multiplied 20-fold in that time, because of these results. Hundreds of thousands of motorists have tried them and adopted them. And Miller Tires are now used exclusively in some of the hardest services in America.

How they did it

The Miller factory has for 24 years specialized in fine rubber. Ten years ago they applied that experience to building a supergrade tire.

They have spent millions of dollars since then in perfecting the Miller Tire.

They keep 250 tires running at

the factory under constant observation. And month by month they find ways to add mileage.

Every tire is signed and a record is kept. Every tire that comes back is examined, and the lessons it teaches are followed.

Over \$1,000 per day is spent just to watch and test Miller Tires and materials.

Supreme tests

Thousands of large tire users have tested these new-grade tires. Some have made million-mile tests, comparing as high as 21 makes with the Miller. These contests, conducted all over America, have made Miller Tires the sensation.

Now Miller mileage is everywhere discussed. It has changed old-time ideas. Every motor car owner owes himself such a test. He should learn what modern tires can do. One test may save you many a dollar.

Make it now.

Cords

Geared-to-the-Road

Twice the Mileage of Five Years Ago

Every Farm Needs a Concrete Mixer

Concrete improvements have saved money for so many farmer; nat their rhelden Farm Concrete Mixer has become as important a fee of fa m equipment as their corn sheller or cultivator. Do away ith the old-fashioned, expensive, back-breaking, unsatisfactory and and shovel method. Mix your concrete the Sheldon way not get a uniform mix every time. Save labor, save time and save ne cost of the Sheldon on the first job.

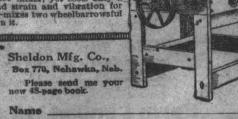
SHELDON CONCRETE MIXER

does the same high grade work as a \$300 mixer, yet costs only a fraction as much. Schidly built to stand strain and vibration for

MAIL COUPON TODAY

and get our 1920 Book on Concrete
It will tell you how you can save
money on your concrete work.
Shows all types of Sheldon Mixers
and gives our direct-to-you low
prioss. It's FREE, Get your copy
today.

Sheldon Mfg. Company NEHAWKA, NEB.



Waxlined Paper Berry Baskets

AR, and inexpensive. Can make immediate support of the control of

M. H. HUNT & SON,

LANSING, MICH.

Farms and Farm Lands For Sale

\$2500, Cash Secures

Big Equipped Mich. Farm
One of Oakland County's good farms fully equipped ready for husiness, splendldly situated near big R. R. town: 80 acres preductive tillage, 40 acres streamwatered pasture and wood, variety fruit; good residence, 6-room tenant house, big basement barn, poultry house, etc.: owner called away throws in 3 horses, the streamwater has blader, manufacture-speeder.

McCLURE-STEVENS LAND CO

and watered. McClure-Stevens Land Co.. Gladwin, Mich.

Ranch for sale or trade for smaller proper Additition Clare County, Mich., Imites from Harrison Ocaniv sous. Terms reasonable, price right, 102 acres, 230 acres eleared, two sets of buildings, can be sold infevo parts, 302 and 652 acres, the best of sell Can give immediate possession. Cause of selling unable to work.

J. M. CUM WINS. R. F. D. 2. Harrison, Michigan

Wanted to Buy an 80 acre 30 letroit. Must be on lake or have

For Sale Spaces strictly high grade Fine buildings. 17 head of Hol Cattle team of horses, hogs, chick ry tools and equipment. Will ewing to the owners poor health. JOHN CONANT, Grand Hav

For trade 40 acres of cut over land in Lake Co. Mich. for a Holstein bull or heifer calves.
SAM TROUP, Chase, Mich.

Please Mention The Michigan Farmer When Writing to Advertisers.

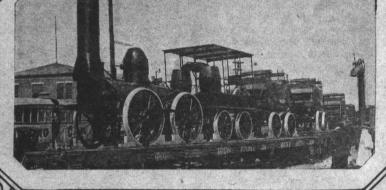
IS IN PICTUR WORLD EVEN



Designer of medal to be awarded to every chaplain who served with U. S. army, navy or the marines.

Wherever General Pershing went on his inspection trip of the Pan-ama Canal, he was overwhelmed by armies of kiddies.





Famous old locomotire, "Dewitt Clinton," and train of 1831 is to be exhibited in New York.

Now that the war is over, Uncle Sam finds no use for the hundreds of submarine chasers which rendered valiant service during the war. Here are a few of the boats to be auctioned.



Russia's most noted novelist, Merez-kowski, here shown at his desk in Warsaw, is coming to America to lecture against Bolshevism.



Miss Colyer, England's champion tennis player, does as much of her playing in the air as on the ground, as is shown by this picture.

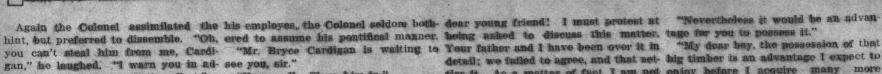


One of the features in the magnificent pageant given by ten thousand New York school children, was the canenization of Joan of Arc.

HE VALLEY OF THE GIANTS

A ROMANCE OF THE REDWOODS

By Peter B. Kyne



vance-so spare yourself the effort." hood where he get this."

cuss when I choose to exert myself." happy," "Rondeau is not communicative. He

requires lots of persuading."

I have a cracker?" The dinner passed pleasantly; the rangement to freight the logs of the tic," Bryce replied evenly. challenge and defiance between guest and host had been so skillfully and gracefully exchanged that Shirley hadn't the slightest suspicion that these two well-groomed men had, under her very nose, as it were, agreed to be enemies and then, for the time being, turned their attention to other and more trifling matters: Coffee was served in the living-room, and through the fragrant smoke of Pennington's fifty-cent perfectos a sprightly threecornered conversation continued for an hour. Then the Colonel, secretly caraged at the calm, mocking, contemplative glances which Bryce ever and anon bestowed upon him, and unable longer to convince himself that he was too apprehensive—that this cool young man knew nothing and would do nothing even if he knew something-rose, pleaded the necessity for looking over some papers, and bade Bryce goodnight. Foolishly he proffered Bryce a limp hand; and a demon of deviltry taking possession of the latter, this time he squeezed with a simple, hearty

earnestness, the while he said: "Colonel Pennington, I hope I do not Cardigan Redwood Lumber Company have to assure you that my visit here this evening has not only been delightsir, and pleasant dreams."

With difficulty the Colonel suppressa minute later the butler, leaning over the banisters as his master climbed the stairs to his library, heard the latter curse with an eloquence that was opening an issue which you have been ly think of one," Bryce suggested singularly appealing.

CHAPTER XIV.

ed his private office. "Well?" he de itive." manded brusquely. When addressing

"Very well. Show him in."

"What delicious soup!" Bryce mur- can make me genuinely happy by re- you."

"I am making no admissions," Penmured blandly. "Miss Summer, may newing, for ten years on the same "I did not expect you to agree to my nington responded enigmatically—"nor terms as the original contract, your ar request. I am not quite that optimis

"Mr. Bryce Cardigan is waiting to Your father and I have been over it in "My dear boy, the possession of that see you, sir." ties it. As a matter of fact, I am not enjoy before I acquire many more "I'll try anything once," Bryce re- Bryce entered. "Good morning, Col- in position to handle your logs with gray hairs. But I do not expect to red with equal good nature. "How- onel," he said pleasantly and brazen my limited rolling-stock, and that old pay for it." "I'm delighted to find you in such a to saddle myself with it again, at your

ever, I don't want to steal him from ly thrust out his hand.

you. I want to accertain from him "Not for me, my bey," the Colonel when I bought the mills, timber lands, as a beaus for renewing our hauling where he precured this burl. There assured him. "I had enough of that and logging railroad from the late Mr. contract?" may be more in the same neighbor last night. We'll just consider the Henderson and incorporated into the The Colonel snapped his fingers. "By hand-shaking all attended to, if you Laguna Grande Lumber Company, has George," he declared, "that's a bright "He wouldn't tell you."

please. Have a chair, sit down and been an embarrassment I have longed idea, and a few months age I would "He might. I'm a persuasive little fell me what I can do to make you to rid myself of. Under those circum- have been inclined to consider it very stances you could scarcely expect me seriously. But now-

"You figure you've got us winging, generous frame of mind, Colonel. You mere request and solely to oblige ch?" Bryce was smiling pleasantly.

any hauling contracts for my neighbor's logs," he added.

"You may change your mind." "Never."

"I suppose I'll have to abandon logging in Township Nine and go back to the San Hedrin," Bryce sighed resignedly.

"If you do, you'll go broke. You can't afford it. You're on the verge of insolvency this minute."

"I suppose, since you decline to haul our logs, after the expiration of our present contract, and in view of the fact that we are not financially able to build our own logging railroad, that the wisest course my father and I could pursue would be to sell our timber in Township Nine to you. It adjoins your holdings in the same township."

"I had a notion the situation would begin to dawn upon you." The Colonel was smiling new; his handsome face was gradually assuming the expression pontifical. "I'll give you a dollar a thousand feet stumpage for it."

"On whose cruise?"

"Oh, my own cruisers will esti-mate it."

"I'm afraid I can't accept that offer. We paid a dollar and a half for it, you Colonel Pennington cleared his ed negotiations, you might have a rea- know, and if we sold it to you at a dolcounter-proposition to sug- lar, the sale would not bring us sufficient money to take up our bonded indebtedness; we'd only have the San "I suppose if I agreed to sell you Hedrin timber and the Valley of the sort of man who suffers in silence; for them upon his aristocratic nose, and that quarter-section of timber in the Giants left, and since we cannot log little valley over yonder" (he pointed either of these at present, naturally

"That's the way I figured it, my boy." "Well-we're not going out of bus-

"Pardon me for disagreeing with

"Not much! We can't afford it." The Colonel smiled benignantly. "My dear boy, my very dear young friend,

-By Frank R. Leet



To aid in correlating the efforts of the various agencies working at the great task of developing community spirit and community personal resources perhaps no move has done more toward the achievement of that end in this state than has the summer courses at the Michigan Agricultural College for ministers and religious workers having country charges.

from the woods to tidewater."

ful but-er-instructive. Good-night, throat with a propitiatory "Ahem-m!" sonable Then he removed his gold spectacles gest." and carefully wiped them with a silk ed a groan. However, he was not the handkerchief, as carefully replaced then gazed curiously at Bryce.

"Upon my soul!" he breathed.

pleased to regard as having been set- pointedly. tled in the last letter my father had

"Then why did you ask me?"

"I thought that possibly, if I reopen-

"I haven't thought of any."

to the east) "and the natural outlet for we'd be out of business." "I realized, of course, that this is re- your Squaw Creek timber, you'd quick-

"No, I am not in the market for that C OLONEL SETH PENNINGTON from you, and wherein you named Valley of the Giants, as your idealistic you. I think you are. looked up sourly as a clerk enter- terms that were absolutely prohib- father prefers to call it. Once I would have purchased it for double its value, "My dear young friend! My very but at present I am not interested."

AL ACRES-At That Percy May Not be Irrational.



listen to me. Your paternal unrester is the only human being who has ever succeeded in making a perfect monkey out of me. When I wanted to purchase from him a right of way through his absurd Valley of the Glants, in order that I might log my Squaw Creek timber, he refused me. And to add insult to injury, he spouted a lot of rot about his big trees, how much they meant to him, and the utter artistic horror of running a logging-train through the grove-particularly since he planned to bequeath it to Sequoia as a public park. He expects the city to grow up to it during the next twenty years.

"My boy, fhat was the first bad break your father made. His second break was his refusal to sell me a millsite. He was the first man in this county, and he had been shrewd enough to hog all the water-front reat estate and hold onto it. I remember he called himself a progressive citizen, and when I asked him why he was so assiduously blocking the wheels of progress, he replied that the railroad would build in from the south some day, but that when it did, its builders would have to be assured of terminal facilities on Humboldt Bay. 'By holding intact the spot where rail and wa ter are bound to meet,' he told me, 'I insure the terminal on tidewater which the railroad must have before consenting to build. But if I sell to Tom, Dick and Harry, they will be certain to gouge the railroad when the latter tries to buy it from them. They may scare the railroad away'."

"Naturally!" Bryce replied. "The average human being is a heg, and merciless when he has the upper hand. He figures that a bird in the hand is worth two in the bush. My father, on the contrary, has always planned for the future. He didn't want that railroad blocked by land-speculators and its building delayed. The country needed rail connection with the outside world, and moreover his San Hedrin timber isn't worth a hoot until that feeder to a transcontinuetal road shall be built to tap it."

"But he sold Bill Henderson the mill-site on tidewater that he refused to sell me, and later I had to pay Henderson's heirs a whooping price for it. And I haven't half the land I need."

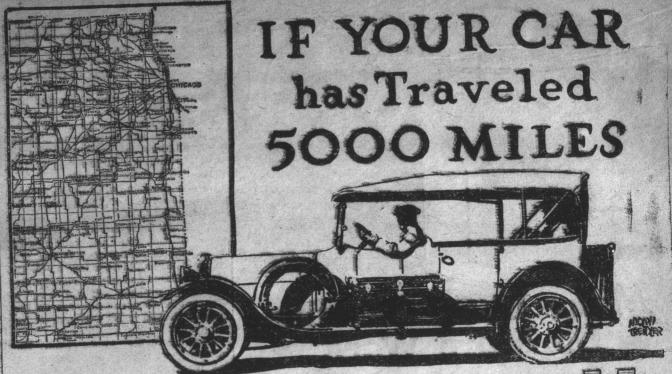
"But he needed Henderson then They had a deal on together. You must remember, Colonel, that while Bill Henderson held that Squaw Creek tim ber he later sold you, my father would never sell him a mill-site. Can't you see the sporting point of view involved? My father and Bill Henderson were good-natured rivals; for thirty years they had tried to outgame each other on that Squaw Creek timber Henderson thought he could force my father to buy at a certain price, and my father thought he could force Henderson to sell at a lesser price; they were perfectly frank about it with each other and held no gradges. Of course, after you bought Henderson out, you foolishly took over his job of trying to outgame my father. That's why you bought Henderson out, isn't it? You had a vision of my father paying you a nice profit on your investment, but he fooled you, and now you're peeved and won't play."

Bryce hitched his chair toward the Colonel. "Why shouldn't my dad be nice to Bill Henderson after the feud ended?" he continued. "They could play the game together then, and they did. Colonel, why can't you be as sporty as Henderson and my father? They fought each other, but they always fought fairly and in the open, and they never lost the respect and liking each had for the other."

"I will not renew your logging contract. That is final, young man. No man can ride me with spurs and get away with it."

"Oh, I knew that yesterday."

"Then why have you called on me



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PEACH TREE SALE: Large standa

today, taking up my time on a dead

chance to repent. I know your plan. You have it in your power to smash his lunch." the Cardigan Redwood Lumber Comare an ambitious man. You want to her appearance in his office. be the greatest redwood manufacturer a competitor: you decline to play the May I go with you?" game like a thoroughbred."

nothing illegal, sir."

rous. Colonel, you know your plea of and upsetting our schedule." a shortage of rolling-stock is that the contract for hauling our logs has been very profitable and will be more profitable in the future if you will accept a fifty-cent-per-thousand increase on the ten years."

"Nothing doing, young man. Remember, you are not in a position to ask favors."

"Then I suppose we'll have to go down fighting?

"I do not anticipate much of a fight." "You'll get as much as I can give

"I'm not at all apprehensive."

"And I'll begin by running your woods-boss out of the country." "Ah-h!"

Pennington.'

Pennington flushed. "I defy you to prove that," he almost shouted.

"Very well. I'll make Rondeau confess; perhaps he'll even tell me who sent him after the burl. Upon my word, I think you inspired that dastardly raid. At any rate, I know Rondeau is guilty, and you, as his employer and the beneficiary of his crime, must accept the odium."

The Colonel's face went white. "I do not admit anything except that you man. However, for the sake of argument: granting that Rondeau felled that tree, he did it under the appre-ure, hension that your Valley of the Giants is a part of my Squaw Creek timber adjoining."

"I do not believe that. There was malice in the act-brutality even; for my mother's grave identified the land as ours, and Rondeau felled the tree on her tombstone.'

"If that is so, and Rondeau felled that tree-I do not believe he did-I am sincerely sorry, Cardigan. Name deau's jaw with his right, and when tree. I do not desire any trouble to develop over this affair."

can pay in dollars and cents for the wanton destruction of God's handi and cover. work. You wanted that burl, and you could not buy."

"That will be about all from you my niece."

"It's your office-so I'll get out. As

'fooey!"

"Do not send for him, then," Pennington commanded. "I'm coming up "I wanted to give you one final on the eleven-fifteen train and will talk to him when he comes in for

At eleven o'clock, and just as the pany, acquire it at fifty per cent of its Colonel was leaving to board the elevvalue, and merge its assets with your en-fifteen logging-train bound empty Laguna Grande Lumber Company. You for the woods, Shirley Sumner made

"Uncle Seth," she complained, "I'm in California, and in order to achieve lonesome. The bookkeeper tells me your ambitions, you are willing to ruin you're going up to the logging-camp.

"By all means. Usually I ride in the "I play the game of business accord- cab with the engineer or fireman; but ing to the rules of the game; I do if you're coming, I'll have them hook on the caboose. Step lively, my dear, "And nothing generous or chival- or they'll be holding the train for us

By virtue of their logging contract with Pennington, the Cardigans and their employes were transportfreight-rate and renew the contract for ed free over Pennington's logging railroad; hence, when Bryce Cardigan resolved to wait upon Jules Rondeau in the matter of that murdered Giant, it was characteristic of him to choose the shortest and most direct route to his quarry, and as the long string of empty logging-trucks came crawling off the Laguna Grande Lumber Company's log-dump, he swung over the side, quite ignorant of the fact that Shirley and her precious relative were riding in the little caboose in the rear.

At twelve-ten the train slid in on "You know why, of course—those the log landing of the Laguna Grande burl panels in your dining-room. Ron- Lumber Company's main camp, and deau felled a tree in our Valley of the Bryce dropped off and approached the Giants to get that burl for you, Colonel engineer of the little donkey-engine used for loading the logs. "Where's Rondeau?" he asked.

The engineer pointed to a huge, swarthy man approaching across the clearing in which the camp was situated. "That's him," he replied. And without further ado, Bryce strode to meet his man.

"Are you Jules Rondeau?" he demanded as he came up to the woodsboss. The latter nodded. "I'm Bryce Cardigan," his interrogator announced, "and I'm here to thrash you for chopping that big redwood tree over in that appear to have lost your head, young little valley where my mother is buried."

"Oh!" Rondeau smiled. "Wiz pleas-And without a mo-M'sieur." ment's hesitation he rushed. Bryce backed away from him warily, and they circled.

"When I get through with you, Rondeau," Bryce said distinctly, "it'll take a good man to lead you to your meals. This country isn't big enough for both of us, and since you came here last, you've got to go first."

Bryce stepped in, feinted for Ronyour price and I will pay you for the the woods-boss quickly covered, ripped a sizzling left into the latter's midriff. Rondeau grunted and dropped his "You can't pay for that tree," Bryce guard, with the result that Bryce's burst forth. "No pitiful human being great fists played a devil's tatoo on his countenance before he could crouch

"This is a tough one," thought when my father was blind and could Bryce. His blows had not, apparently, no longer make his Sunday pilgrim- had the slightest effect on the woodsages up to that grove, your woods-boss boss. Crouched low and with his arms went up and stole that which you knew wrapped around his head, Rondeau still came on unfalteringly, and Bryce ras forced to give way before him; to young man. Get out of my office. And save his hands, he avoided the risk of by the way, forget that you have met battering Rondeau's hard head and sinewy arms.

Already word that the woods-boss for your second command"—he snap was battling with a stranger had been ped his fingers in Pennington's face—shouted into the camp dining room, and the entire crew of that camp, When Bryce had gone, the Colonel abandoning- their half-finished meal, hurriedly called his logging-camp on came pouring forth to view the conthe telephone and asked for Jules Ron- test. Out of the tail of his eye Bryce deau, only to be informed, by the time- saw them coming, but he was not apkeeper who answered the telephone, prehensive, for he knew the code of that Rondeau was up in the green time the woodsman." "Let every man roll ber with the choppers and could not be his own hoop." It would be a fight to gotten to the telephone in less than a finish, for no man would interfere; striking, kicking, gouging, biting, or

choking would not be looked upon as unsportsmanlike; and as Bryce backed cautiously away from the huge, lithe, active, and powerful man before him, he realized that Jules Rondeau was, as his father had stated, "top dog among the lumberjacks."

Rondeau, it was apparent, had no stomach for Bryce's style of combat. He wanted a rough-and-tumble fight and kept rushing, hoping to clinch; if he could but get his great hands on Bryce, he would wrestle him down, climb him, and finish the fight in jigtime. But a rough-and-tumble was exactly what Bryce was striving to avoid, hence when Rondeau rushed, Bryce side-stepped and peppered the woodsman's ribs. But the woods-crew, which by now was ringed around them, began to voice disapproval of this style of battle.

"Clinch with him, dancing master," a voice roared.

"Tie into him, Rondeau," another shouted.

"it's a fair match," cried another, "and the red one picked on the main push. He was looking for a fight, an' he ought to get it; but these fancy fights don't suit me. Flop him, stranger, flop him."

"Rondeau can't catch him," a fourth man jeered. "He's a foot-racer, not a

Suddenly two powerful hands were placed between Bryce's shoulders, effectually halting his backward progress; then he was propelled violently forward until he collided with Rondeau. With a bellow of triumph, the woods-boss's goriffa-like arms were around Bryce, swinging him until he faced the man who had forced him into that terrible grip. This was no less a personage than Colonel Seth Pennington, and it was obvious he had taken charge of what he considered the obsequies.

"Stand back, you men, and give them room," he shouted. "Rondeau will take care of him now. Stand back, I say. I'll discharge the man that interferes."

With a heave and a grunt Rondeau lifted his antagonist, and the pair went crashing to the earth together, Bryce underneath. And then something happened. With a howl of pain, Rondeau rolled over on his back and lay clasping his left wrist in his right hand, while Bryce scrambled to his feet.

"The good old wrist-lock does the trick," he announced: and stooping, he grasped the woods-boss by the collar with his left hand, lifted him, and struck him a terrible blow in the face with his right. But for the arm that upheld him, Rondeau would have fallen. To have him fall, however, was no part of Bryce's plan. Jerking the fellow toward him, he passed his arm around Rondeau's neck, holding the latter's head as in a vise with the crook of his elbow. And then the battering started. When it was finished, Bryce let his man go, and Rondeau, bloody, sobbing, and semi-conscious, sprawled on the ground.

Bryce bent over him. "Now, damn, you," he roared, "who felled that tree in Cardigan's Redwoods?"

"I did, M'sieur. Enough—I confess!"
The words were a whisper.

"Did Colonel Pennington suggest it to you?"

"He want ze burl. By gar, I do not want to fell zat tree—"

"That's all I want to know." Stooping, Bryce seized Rondeau by the nape of the neck and the slack of his overalls, lifted him shoulder-high and threw him, as one throws a sack of meal, full at Colonel Pennington.

"You threw me at him. Now I throw him at you. You damned, thieving, greedy, hypocritical scoundrel, if it weren't for your years and your gray hair, I'd kill you."

(Continued next week).

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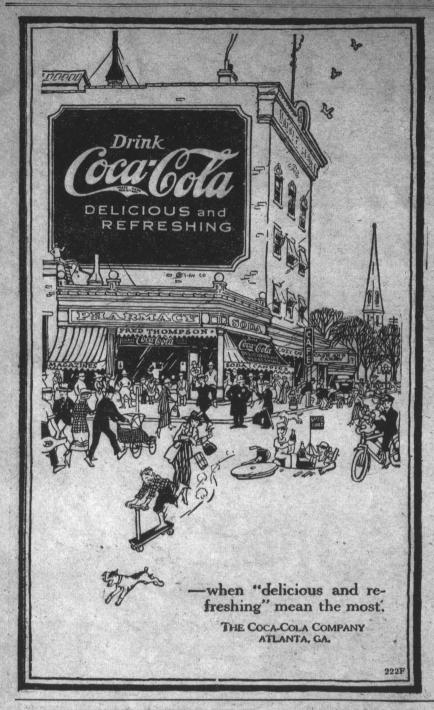
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Religion and Health

(Our Weekly Sermon)

By N. A. McCune

have a relationship with the mental his patient. He told her not to be disstate. In fact, several diseases of the couraged, as he knew of a certain heart are directly aggravated by the treatment that would do her a world state of the patient's mind. By chang- of good, if it did not effect a permapessimistic to contented and hopeful, and use it every day. Her curiosity personal faith may have a powerful was aroused. She signed a written influence. An immoral, wild-living hus- promise that she would do exactly as While away from his family, he pro- tion was as follows: Three times a fessed conversion. He came home, day she was to go into a room alone was reunited to his wife and children, and draw the curtains, place a chair and his blood pressure dropped to 140; in the middle of the room and kneel A young man had suffered long from down and pray for ten minutes. She nervous prostration. He had experi- was to pray aloud, slowly and distinctmented with baths, medicine, hypno-ly. The woman said she could not do tism, the "rest cure," and all had fail- it. She had not prayed for years, nor ed. One night he was passing a church been to church, and she had lost all where evangelistic services were be- faith in those things. It was all huming held. Attracted by the hearty bug. The doctor showed her the writsinging, he went in. He was greatly ten promise, which she had signed. impressed by the preacher's positive That floored her, and she promised to convictions, and his tremendous earn- try. Three weeks later she returned. estness. Many of the people seemed She had gained complete mastery over to be free from anxiety, and their faces her mental difficulties. She had gainbore testimony to inward peace. He ed five pounds, slept well, and her attended the meetings again, accepted neighbors remarked her great improvethe invitation to become a Christian, ment. She said that after a few days and joined the church. Immediately her praying began to have a real meanhe was put to work. He joined a club ing to her, and she entered into it all of volunteer workers and began to in- her soul. Religion, if it be genuine, vite his friends to attend the meet- has an effect on the body. ings. He forgot himself. In ten days he was another person. His counte-nance changed. He became cheerful Sunshine Hollow Items and happy. The power of personal faith in God is nowhere better exemplified than in the cases of victory over drunkenness. We hope it will not be the farm just as long as he can tramp long until America will see the last around with his shoes full of feet and drunken man, but in the meantime his head full of sense. He don't bethere are still many who need the power of religion to remove the appe- biles. He has three boys in the city, tite and restore them to a normal con- and between them those boys have

of slavery. Over and over we are en- Guess it's because they're too busy. joined not to be afraid. "Fear not, Porter Greenwood says that George fear not," is the off-recurring comrandom a few passages of this nature:

"Casting all your care upon Him, for He careth for you." "Say to them that are of fearful heart, be strong, fear not." "For God hath not given us a "To a different from George, because there is no evidence that George ever got caught telling a lie, while he gets showed up by his wife every time he tells one. spirit of fear, but of power and of love

NEXT is the practice of prayer. Stamps to Doctor Hyslop, superintendent of the Bethlehem Royal Hospital, London, England, says: "As an alienist, and gave him a fine start in life. One day one whose life has been concerned the old man said, "Stephen, after tostate that of all hygienic measures to house is going to cost you thirty counteract disturbed sleep, depressed cents." It gave Stephen such a start spirits, and all the miserable sequels that he has been working mighty hard of a distressed mind, I would undoubt- ever since.

OES religion have anything to do edly give the first place to the simple with one's health? Experience habit of prayer." A woman once went and science answer in the affirm to a doctor, in extreme nervous agitaative. In fact, the relationship is far tion. It was explained to her that she closer than most people imagine. Cer was suffering from no organic disease, tain diseases or types of disease are but she would not listen to this kind on the increase in America, namely of advice. She said she was going to those of the nervous type and diseases lose her mind, and further treatment which spring from that source. Heart was of no use. The doctor was a man trouble and high blood pressure take who knew the power of personal faith. their annual toll of thousands. These and he decided to try that-remedy on ing the mental state, from gloomy and nent cure. But she must be faithful band had a blood pressure of 180. the doctor prescribed. The prescrip-

By Rube Rubicon

Grandpa Jones says he will stick to lieve in retiring anything but automonine children. It keeps Grandpa Jones busy chasing chickens and buying sugar to keep those kids fed during sum-W HAT are the elements in Chris- mer vacation on the farm. Both tianity that give it this grip on Grandpa and Grandma are sort of glad the body? Well, first, there is the when school begins, but they like a chart of Christianity, the Bible. The pretty good dose of visiting every sum-Bible is the greatest storehouse of mer and seem to survive. Lots of strength and courage known. Much folks in the cities don't appreciate the disease is a state of fear, and fear is grandfathers and grandmothers back always branded in the Bible as a state on the farm the way they ought to.

mand. The Bible breathes courage tree according to history, but if he as Lake Michigan breathes ozone, had been living now he would have That is why Bible reading men have been strong men, in all ages. Take at is different from George, because there is different from George, because there

The Muggins triplets a cutting and a sound mind." "The Lord is my down the cost of living by buying one light and my salvation, whom shall I chocolate soda and taking three straws. fear?" And He said to the woman, Yesterday it ended in a fight because thy faith hath saved thee, go in peace," Jerry Muggin sucked the fastest on and hundreds more, of like passages, his straw. Tom Allen, the druggist, says there is more money in postage stamps than selling sodas to those

Stephen McCann says his father with the suffering of the mind, I would day every meal that you eat in this

City Life vs. Country Life By Margaret Winslow

We used to live in the city.

And a thousand bones a year
Seemed like a pretty big income
"Till along came the profiteer.

Then up went the price of groceries, And the things we have to wear; Then it seemed as though Father's in-Was too small the strain to bear.

When Father received his pay check
There were always bill to pay,
And the bills kept growing larger
With every passing day.

Each week the price was higher, On sugar, shoes and rent, And gas and coal and everything: O, the money was soon spent.

When Mother would sit and figure, Her brow with care was lined, For the solution of the problem Was surely hard to find.

Each week, just thirty dollars Was earned by my dear dad; To see my parents worrying Made me feel awful sad.

"There's shoes to get for the baby," I'd hear my mother say:
"The rent is due, and the ice-man
Will come to collect today.

"The flour is gone—and the butter,
But we'll have to go without,
For the milkman said we'd have to pay
Or he'd leave us off his route."

"You must pay your insurance;
The coal is almost gone,
The gas bill's due—oh, dear, oh, dear!
There must be something wrong."

"For I can't make thirty dellars Pay all these weekly bills; Yet I've got to do it somehow, Oh! This is the life that kills."

Thus Mother and Father would worry, And figure, and go without The things they should have had each day, To make life worth a shout.

At last they got so sick and tired
Of worrying along,
They bought a farm, and here we are!
Now Mother sings a song.

For she is happy all the day, From care and worry free, And Dad goes whistling to his work, So blithe and gay is he.

There's all the milk and eggs and The family wants to use, And more besides, to sell down town; Now isn't that good news?

There's lots of fruit of every kind, And vegetables, too, We just go out and gather them, That's all we have to do.

There's lots of wood about the place, It doesn't cost a dime, We just go out and saw it up; There's fuel all the time.

No rent to pay—no men to meet
Who would collecting come,
For garbage, ice and water, too,
And everything under the sun.

Out here the children run and play, And yell to beat the band; There's lots of room for all their noise In this big country-land.

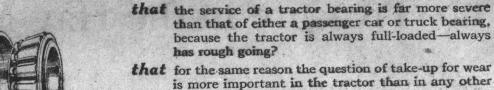
When Father sells his wool and lambs Or calves or pigs or hay, We all dress up and go along And have a holiday.

A thousand plunks go in the bank,
A thousand pay the debt,
The rest we spend for clothes and
things We all have wished to get.

MANY DWELLINGS BURN.

DWELLING house fires in 1919 numbered 210,000, and represented over twenty-two per cent of the total valwe of the fire loss of the country, according to the annual report of the statistical bureau of the National Board of Fire Underwriters. The board is making a particular drive at dwelling houses, as most of the fires in dwellings are preventable, and has requested the fire prevention organizations to aid in spreading the data collected by its experts.

o You Kn



STANDARD PRACTICE The use of Timken Tapered Roller Bearings at points of hard service in the great majority of leading tractors— articis power-driven form machinery— is proof of leadership established on the tapered principle of design, qual-ity of manufacture, performance, and service to the automotive industry, that for the same reason the question of take-up for wear is more important in the tractor than in any other automotive vehicle?

that Timken Tapered Roller Bearings are made adjustable for the same reason that your motor main and connecting-rod bearings are adjustable?

that the Timken Bearing is all made at the Timken factory, beginning with the manufacture of the steel?

that the tapered roller bearing—the Timken type—is the type of bearing that will function properly under radial load, or thrust load, and all possible combinations of the two?

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General Offices, Steel, Rolling, and Tube Mills, Canton, Ohio The Whitney Tractor, made by Ohio Manu-facturing Co., Upper Sandusky, Ohio.



Every Farmer Will Want FREE Book This free book tells you everything you want to know about installing water systems to supply run-ning water for house and barns—tells you how to figure capacity of water tanks — how to lay piping—irrigation tables, etc. This book also tells you about

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the pumps that are all their name implies. HUMPHRYES pumps are recognized everywhere as the ideal pumps for service and durability. Don't buy a pump until you have investigated the HUMPHRYES line at your dealers. He has a style and type of pump to meet any requirements from an ordinary cistern pump to power pump. Write for This FREE Book Today

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THE MICHIGAN FARMER, Petroit, Michigan.

Our Boys' and Girls' Department

The Treasure in the Hay Mow

By Lemuel L. De Bra

the six boys who had begun the Warren. task of cleaning out the old hay to make ready for the new crop which Rob and his chum, Ben, remained. Far of jewelry, then waddled after him. across the meadow, Rob Warren could see the shady clump of willows by the watch that?" asked Rob. stream where the other boys had gone swimming.

ey had argued that there would be the hay into the driveway after Rob. town." time Monday morning to finish the job of getting out the old hay. But Rob along the driveway toward the main drew a long face. He was about to had promised his father he would try door of the barn. Just as he was about speak again when Rob raised a finger had staid; and Ben Manning had staid his tracks, stared for a moment down A moment later the two boys conwith him. Wringing wet with perspiration, gasping for breath in the hot, dust-laden air, and with every muscle sere from tugging with the pitchfork at the tangled hay, Rob had gone to the window for a moment's rest and

Suddenly he heard a startled cry from Ben. Rob leaped to his feet. He turned and scrambled across the hay to where he had left his chum.

Ben Manning was a fat, good-natured fellow, with curly, red hair, and blue eyes that seemed always to be laughing. Now Rob saw him down on his knees, his face dripping with perspiration, and his short, fat arms tugging at something buried in the hay.

"What is it?" cried Bob. "Ca-can't you see it's a grip?" panted Ben. "And it's full of goldbricks, too, from the weight of it!"

Rob hastened to his side, and helped Ben uncover the object, which really proved to be a large, brown grip. It was very heavy, and was securely bound with straps. The boys looked at it, then at each other in mystified

Ben.

and tried to appear very thoughtful. "Burglars!" he gasped finally.

enough!" he agreed.

"Let's open it."

might be watching. Yet he knew they life. fasten the straps.

the boys' fingers were nervously eager. your whole lives. links, and other jewelry.

"Burglars!" repeated Ben, in an awed whisper.

"Sure!"
"What'll we do?"

For a moment Rob was silent. He looked in wonder at the heap of shining gold. When had the burglars hidmight come that very night.

HE day was intensely hot. Of sheriff come at once," concluded Rob the lane that led to the county road, cealed in the darkness of the granary,

"That's it!" Ben agreed.

they would start hauling Monday, only the driveway. Ben looked at the grip coming!" he whispered.

Again Ben looked at the grip filled with shining gold. Slowly his eyes said Rob significantly. Sitting in the window of the hay- rolled around toward the dark corners mow, Rob had been thinking, longing- of the barn. "Don't-don't you think wouldn't come in the daytime," he obly, of that swimming pool. The other I'd better go along and help tele-jected. boys had coaxed him to go with them, phone?" he stammered, and slid down

With Ben at his heels, Rob hurried to clean up the job Saturday. So he to step out of the door he halted in and cautioned silence.

then seized Ben by the arm and drew saw two roughly-dressed men sneak in him back into the empty granary that through the barn door. The two men Rob started across the hay toward opened into the driveway. "Someone's looked sharply around.

Cautiously, Ben peeked out. "Sure one of the men demanded. "Hadn't you better stay here and enough!" he exclaimed in a low voice. "Two men. Who are they?"

"They're strangers around here,"

Ben' started. "But-but burglars

"Maybe they know my folks are in

Evidently this impressed Ben, for he



For Boys and Girls

By E. T. Meredith, Secretary of Agriculture

"How did that get here?" demanded older people need not bother to read I wish the rest of you boys and girls Rob shook his head. Ben ran his the Boys' and Girls' Club work repre- bers of the clubs and help us in acstubby fingers through his red hair sents one of the most important lines complishing this great service for our though it were red-hot. Both men of agricultural activity in the United common country. It is a patriotic Bob stared at him, wide-eyed. "Sure because it has such large possibilities. can not be rendered by anybody ex-We men and women who are trying to cept you boys and girls. improve farming and farm life will be Rob looked quickly around the hay- out of the game when you boys and mow as though afraid that someone girls are just reaching the prime of You have the advantage of us were alone. Even his father and moth- because you are learning the princier were away-had driven to town and ples of good agriculture and homewere not to return until evening. He making while you are still young have left the farms to work in the nedded to Ben, and they began un-enough to learn to the best advantage and to apply in a practical way the The straps were buckled tight, and knowledge thus gained throughout

grip. Then, slowly, Bob worked the complishing more good than can be to know that many of us here in the top off. And at what they saw, both measured. The good that you will be De boys gasped in astonishment. The able to do will increase as you grow the Boys' and Girls' Clubs much as had wanted very much to ask Ben to older and, when you become full-grown Caesar must have looked upon the the agricultural forces of this nation a Old Guard. The other forces may fail, brave; and he tried his best, although

CONGRATULATE the Boys and not know that, while you make you make the wild hear the wil den it there? When would they come like to ask a favor of the boys and that the boys and girls in the clubs Rob could hear the wild beating of his for it? Probably the thieves realized girls who are not members of the have better times than the boys and own pulse. The thieves shifted their that the new having season was on clubs. We are trying the United girls who are not in the clubs, and weight from one foot to another. and they would return soon. Yes, they States Department of Agriculture, the that is an additional compensation to state agricultural colleges, and a great you for the hard work you do in the gruffly. "I'll telephone to town and have the many other people—to make the farms club work.

the farm boys and girls, and the home life on the farm more pleasant. it at all. Now, you and I know that would join those who are already mem-granary. "Halt! Hands up!"

year in the history of Boys' and Girls' Club work—and I am confident it will be. The country is facing a difficult situation, because so many men city. The good work that the club boys and girls can do will help to overcome that handicap—and the club It took them sometime to unfasten the Even as boys and girls you are ac- work this year. It may hearten you men and women, you can supply for Tenth Legion, or Napoleon upon the

> dertake such serious service if I did could not see his face. CONGRATULATE the Boys' and not know that, while you work hard,

"Remember where we hid it, Bill?"

"Yep."

"Then get it! Everyone's in town 'cept them kids, and they're down swimming; but I'd better watch here while you get the grip."

While one stood watch at the door, the other man hurried into the haymow. His heart in his mouth, Rob watched the fellow at the door. What would happen when the other burglar found the grip uncovered-and open.

He did not have long to wait. The burglar, dragging the heavy grip, came stamping down the driveway to where the guard stood. His face showed his agitation. "Someone's uncovered this!"

"And left it lying there?"

The other fellow gulped, and nodded his head. The guard's eyes narrowed. He looked around suspiciously, and one hand went to a hip pocket. "A trap!"

At that instant, the open door of the granary, just opposite the two men, attracted their attention. They peered into the darkness. Rob shrank back against the wall, and, in doing so, one hand came in contact with something cold and hard. Then he remembered. It was his father's shotgun. They had left it in the granary lately since trying to shoot that chicken-hawk.

Unconsciously Rob's fingers tightened on the weapon. He saw the men were still peering toward him. Slowly he lifted the gun. He drew back the

"Let's beat it!" exclaimed one of

The other nodded. He picked up the

WANT to say just a few words to of this country more profitable and grip, and both men turned toward the Then came a sharp cry from the

The burglar dropped the grip as

whirled again and faced the granary. States today. I believe it is important, thing to do; and it is a service that They saw the yawning mouth of a double-barreled shotgun aimed at them. As though jerked by a wire, four hands

"Great Scott!" gasped Ben, under his breath.

"Ben, listen!" whispered Rob War-"You climb out that back window, skip around to the house, and phone the sheriff. I'll stay here until he comes."

"Sure, I'll—I'll go," said Ben very promptly.

Rob heard him tip-toe rapidly across the granary floor. Then he heard the boy scramble out the window. And Rob was alone with the thieves.

take the gun and let him run to the leadership such as the world has nev-but we know that we can rely on you. it was all he could do to hold the gun I might not be willing to see you un- steady. He was glad the burglars

For a moment-it seemed a fearful-

"Wot's de game?" demanded one,

"You're prisoners," replied Rob, be-

cause he did not know what else to

This reply did not seem to surprise the men very much, yet Rob saw them look at each other knowingly. One started to lower his hands.

"Hey, kid, come out here!" he called, affecting a friendly tone. "We want to talk to you."

Rob's heart skipped a beat. He knew, then, that his voice had betrayed him. The men realized now that it was only a boy they had to deal with.

"I'm satisfied here," Rob replied, as boldly as he could. "And you stay there where you are."

For another moment the men looked at each other significantly. Rob's arms were growing tired holding the heavy gun in that cramped position. He wished Ben would return. By this time, Ben surely had got the sheriff on the 'phone. Why didn't the boy come back?

"We'll give you a fine gold watch it you'll put down that cannon and let us go," the guard said coaxingly. "Come; be a good fellow. Look-" and he made a move toward the grip.

"Stop!" cried Rob. "And keep your hands up!"

The men scowled savagely, but they put up their hands again. One whispered something to the other, and Rob saw that they took a half-step closer.

Still there was no sign of Ben. What had happened to the boy? Rob wondered if he had run away and left him alone. Perhaps he had not even telephoned to the sheriff. Still Rob knew that wouldn't be at all like his chum

The men took another cautious step closer. Rob did not know what to do. He knew the thieves were planning to creep up and rush him. His trembling finger tightened on the trigger.

"Don't you know how tired our arms get, holding them up like this?" demanded the guard. Rob knew they were just parleying for time. For even as he spoke, the guard crept a few inches nearer.

So Bob made no reply. Besides, he was thinking of his own cramping arms. And he tried to think what he would do when the men finally leaped at him. Would he shoot? He shuddered at the thought.

Now the two men were only a few feet away. Rob began to notice that they were powerful fellows. Well, another moment would tell the story. With a cry, they would leap at him. His finger would tighten quickly on the trigger. There would be an awful roar as both barrels

Then, suddenly, a thought flashed through Bob's mind that left him weak and trembling and almost panic stricken. He remembered:

The shotgun was empty!

Only the day before, his father had used the very last shell they had in firing at that chicken-hawk. And now, Rob was facing two desperate thieves who were slowly creeping upon him and were now almost ready to spring and facing them with an empty gun. The boy wanted to throw down the useless weapon: He wanted to scream at the top of his voice and to run away as fast as his legs could carry him.

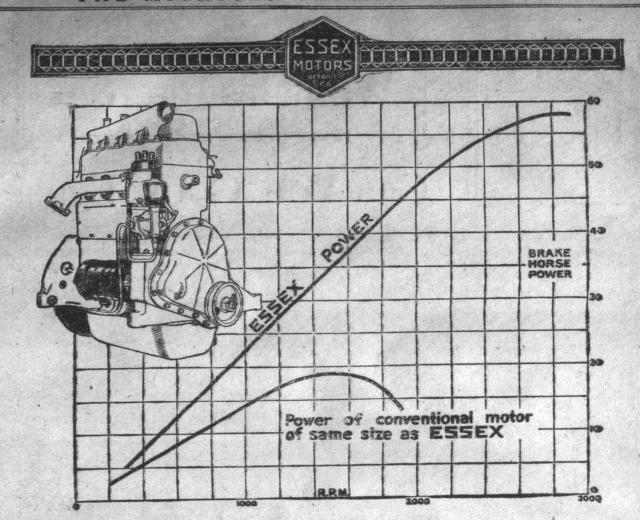
He wondered what really would happen. He tried to think what would be hest thing to do. He wondered if the sheriff had started yet. Perhaps he had seen Rob's father and mother and had told them. What would Mr. Warren think?

As the picture of his father came before his eyes, Ben was suddenly ashamed of his fear. His father would not be afraid. His father was the Barred Rock Baby Chicks. Order year limbest and the bravest man who ever torms.

H. H. PIERCE, Jerome, Mich kindest and the bravest man who ever lived, he told himself.

The boy's shoulders straightened. He was brave. He would not flinch. He, too, was a Warren!

His head went up, proudly. His



Note How Essex Trebles **Motor Power**

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Some may think of Essex only as one of a finer type, marking a general advance in standards throughout the light car field.

But the facts quickly expose that mistake. The Essex Motor is patented. No larger than standard motors that yield but 13 H. P. at utmost, the Essex delivers 55 H. P. And Essex performance, so enthusiastically admired by all motordom is the product of that exclusive invention.

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For cars of its piston displacement it has set every official record from 1 to 50 hours. And in its first year it set a selling record never equalled in motor history.

It creates a new standard of light car capacity in a totally new type. And it cannot be copied. Do not forget that. You can get the abilities for which these records stand, only in the Essex.

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HOMESTEAD FARMS HOLLOW SELF FILLING

Fill tank with oil or dip or the stuff you spray with

VERMIN PROOF PERCHES

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Baby chicks: Standard Bred S. C. White and Bro Also English White Legherns. Bred to lay,lar white ergs. Safe arrival guaranteed, shipped up Daby Also English White Legherns. Bred to lay, large white eggs. Safe arrival guaranteed, shipped up to your door by parcel post. Free catalogue with list. WOLVERINE HATCHERY, R. 2. Zeeland, Mich

CHICKS AND EGGS

ose and Single Comb R. I. Reds. Barred Plymoutl ocks. Superior Color. Prolific Layers. Prepaid b arcel post and safe delivery guaranteed. Illustrated INTERLAKES FARM, Box 39. Lawrence, Mich

teeth came together with a firm click, (Continued on page 885).

Baby Chicks. Eleven leading varieties, bred from the prices, Sent for illustrated evalue and price list Ohls Poultry Yard and Hatcheries, Dept. B, Marion, O

Send for new Catalog with illustrations: it well help you raise your Chicks, Also it explains the Homestead Farms plan of cooperation.

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B-A-B-Y C-H-I-C-K-S

Crescent White Leghorns; also Anconas, Brown and Buff Leghorns, Black "Inoreas, Reds, Rocks (Barred and White), and Wyandottes (Silver-laced and White). WE HATCH the eggs of Hoganized flocks on rangeon separate farms. Crescent Egg Company, Allegan, Mich.

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Chix Whites and Brown Leghorns. B. P. Rocks, and Anconss at reduced prices for June and July Catalog free. Knoll's Hatchery, R. 3, Holland, Mich.

Additional Poultry Ads on Page 883



Woman's Interests

Can You Cook Eggs?



in this way, omit the yolks and give the middle.

learn." Even in the age-old profession 212 degrees. The reason for this is do not let it splutter. If it does it is remove with a skimmer.—A. A. L.

GGS furnish a valuable food as of cooking, new things are always be that the egg white is almost pure al- too hot. Break the eggs one at a time food. Though most people find them ed slowly, and with a low temperature, underdone and unpalatable. easy of digestion occasionally someone she made the mistake of thinking that complains that eggs make them bil- eggs could be made to submit to the this method: Put one pint of boiling platter with a bit of parsley and serve. ious. In this case, if eggs have been mania for speed which has invaded water for every egg in your saucepan Poaching eggs so that the white is ordered, try cooking them in ways in every walk of life. Boiling bot fat, a —unless you have a large number of firm and the edges even is an art only which the white and yolk will be mix- high fire and speed always turned out eggs-put in the eggs, and let the dish acquired by super-careful cooks. First ed, as in omelets, scrambled eggs or a hectic looking egg, with frizzled stand uncovered on the back of the grease the bottom of your iron spider, egg nogs. The white is broken up by edges, a white cooked so hard that it range for eight or ten minutes. The then partly fill with boiling water and beating and rendered more easy of di- couldn't be eaten, and a yolk overdone heat should neither be increased nor add a bit of salt. Break the eggs into gestion. If they cannot be taken even around the edges and underdone in decreased during this time. For hard- a cup and turn them into the water as

never be submitted to a temperature gives a soft, easily digested egg. The person who is willing to learn above 180 degrees. Even when "boil- To fry eggs, faithfully observe the should just emerge from the water.

they are rich in proteids, easily ing discovered and a great many old bumen, and albumen submitted to a into a cup or saucer and enter into the digested and furnish a valuable things are daily being learned by the high temperature becomes tough, leath- fat one at a time. Let the white set substitute for meat. The yolk contains woman with an open mind. Take the ery and indigestible. The popular after each one before another is put iron, calcium and phosphorus and helps very simple act of cooking eggs. It three-minute boiled egg, which is the in. This will usually happen while the to make eggs valuable in infant feed- took one cook exactly fourteen house- only one known in many a household second egg is being broken. When the ing. People troubled with anaemia or keeping years to learn the right way is, therefore, wrong. It results in an frying pan is filled-do not crowd-dip those having tuberculosis, and conval- to fry an egg. Although all good cook- egg with the outside near the shell the hot fat over the eggs with a spoon escents find them a most valuable books told her that eggs must be cook- cooked too hard and the inside often until a film forms over the white. Then

boiled eggs let them stand three-quar- for frying eggs, taking care that the only the whites. It is usually the yolk As a matter of fact, eggs should ters of an hour. This way of cooking spider stands where the water will not

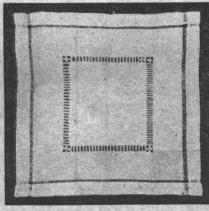
finds daily evidence of the truth of the ing" eggs the water should not be same rule of low temperature. Have Let stand in the water until the white old saw, "One is never too old to boiled, as the boiling temperature is plenty of hot fat in the frying pan, but is firm and a film covers the top. Then

remove to a hot platter, sprinkle with Instead of boiling three minutes, try salt and a dash of pepper, garnish the

even simmer. The top of the yolk

"The Evolution of the Flour Sack"

MONG the exhibits at the House and six times pre-war prices many en than a collection of little garments is eagerly welcomed. labeled, "The Evolution of the Flour The extension work in the northern



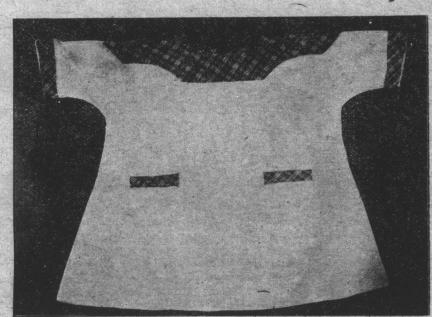
Dainty Drawnwork Centerpiece Evolved from a Flour Sack.

ing clubs of the northern peninsula, closely woven, while other pieces reworking under the direction of the ex- sembled cheesecloth. The finest piece tension department of the college, shown was used in the drawn-work With unbleached cotton selling at five centerpieces shown in the illustration.

wives' Congress held in conjunc- women have been wondering just tion with Farmers' Week at the what to do without this spring, so any-Agricultural College last winter, none thing which promises to be a satisfacwas of greater interest to thrifty wom- tory substitute for household cottons

Sack." This was the work of the sew- peninsula is carried on under the direction of Miss Aurelia Potts, assistant home demonstration leader. She is assisted by five young women, and these six workers conduct thirty-two clothing clubs, fifteen food clubs, one to study a farm budget, and one on home conveniences. There seems to be no use to which these efficient young women, and the members of the clubs, have not put the humble flour sack. Everything from infants' nighties to lunch sets have been evolved, and the results are wholly satisfactory. There were feeding bibs for children, dresses, boys' blouses, combination suits, aprons for mother, petticoats, handkerchiefs, and various other articles which can be made from cotton.

Of course, the sacking was not all of the same quality. Some was fine and

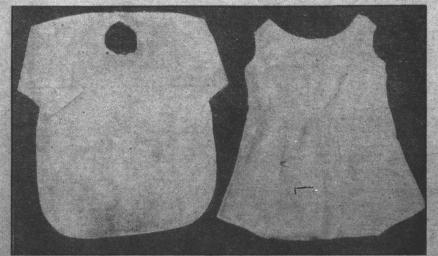


Bias Bands of Gingham give this Slip the Desired Touch of Color.

mas really only a flour sack. The work up in this attractive looking blouse. was done by a Finnish school girl and Easy to make and extremely useful was the piece on which her mother are the feeding bib and child's slip taught her to do drawn-work.

The cloth in this was so much like the had neat cuffs and collar and pocket linen usually used for these center-band of blue in good contrast. No pieces that it was hard to believe it small boy could help feeling dressed

shown in the picture. As you see, For the small boy's Sunday blouse they are faced with gingham to give an unbleached sack offers pleasing pos- the desired touch of color. The comsibilities. The one which is illustrat- bination suit is a useful little garment, ed was almost an ecru in color and combining waist, drawers and petti-



Child's One-piece Feeding Apron and Combination Garment.



A Flour Sack and a Little Ingenuity-Result-an Attractive Blouse.



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will make home-made rootbeer easily and economically. Get a 25c bottle from your grocer. A cake of yeast and some sugar — that's all. One bottle makes 80 glasses.

Hires Household Extract contains the actual juices of roots, barks, herbs and berries. It makes rootbeer as use as it is sparkling and delicious.

With our special afreight patent bottle stoppers you can keep the

THE CHARLES E. HIRES COMPANY



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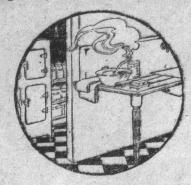
DISHES FOR HARVEST

coat in one. The front of the garment is in one piece and the extreme fullness makes an extra petticoat unnec-

Patterns for any of these garments will be furnished any woman in Michigan who wishes them. Write to Miss Aurelia Potts, Court House, Marquette, Michigan. They are all easily made, being as simple in construction as it is possible to make them. Flour sacks may often be bought of your local

WHEN YOU START CLEANING.

FOR the inexperienced housekeeper, here is a good rule for cleansing agents. Use one-half teaspoon washing soda, one tablespoon borax, two



tablespoons of ammonia, or one teaspoon of lye to each gallon of water.

For scouring.-Use whiting mixed with water for aluminum; mixed with kerosene for fron and porcelain, and with water, alcohol or ammonia for silver.

Use rottenstone mixed with sweet oil for brass, copper and pewter.

Use bathbrick for steel, iron and zinc.

Use fine steel wool for aluminum or hard metal surfaces and wood.

For Woodwork.—Painted, use a cloth wrung out of suds made with white soap. Soap applied directly dulls the paint.

Enameled.-Use hot water only. No

Oiled, Varnished or Shellaced .-Use oiled dusters and mops. If very dirty, wash as painted wood, then rub with a cloth sprinkled with kinseed oil or furniture polish.

Waxed.-Use dry cloths and mops. Oil softens the wax.

Linoleum, Oilcloth and Cork Carpet. -Dust daily with covered broom, soft brush, or dry mop. When in need of washing, wring cloth fairly dry from soapy water. Too much water gets underneath and rots floor and covering.

In wiping down walls, use light strokes with broom covered with canton flannel bag or a lamb's wool brush. If you bear on hard you rub in the dirt.

HOME QUERIES.

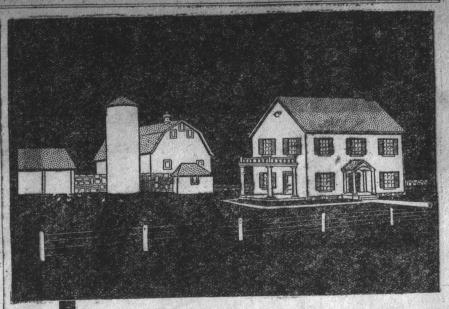
Reader.-Flat wall paint may be used to renovate window curtains. To use it, remove the curtain from the roller and tack tightly to a table or smooth surface large enough to hold the curtain. Apply the paint evenly, and then go over with a dry, clean brush to remove streaks.

The glory of work-yours, mine, everybody's is the chief glory of life. It is not gold or silver, or education or ture: it is not honesty or virtue, or anything which we may possess, which makes our lives worth living. Our success or failure depends on what we do with what we have.

For health and normal growth there is no substitute for butter-fat, in the human diet.

Decayed teeth in children may cause diseased tonsils, adenoids and various digestive troubles or even in some cases colds, sore throat, kernels in the neck, and perhaps scrofula.

Milk is a perfect food. There is no substitute for it, while it is a substitute for all other foods.



The Best White Paint

you can buy is simply Carter White Lead and linseed oil. There is none whiter, none more durable, none that is easier to mix and spread.

Because of its incomparable whiteness, many people think that something has been added to make it white or to bleach it. Not so!

On every keg is our explicit guarantee that the contents are nothing but strictly pure white lead and

Carter is whiter than other white leads or white paint because it is manufactured by a method that excludes anything that might discolor it.

At the same time it can be readily tinted to any shade desired.



Carter White Lead Co. CHICAGO, ILLINOIS

Each Cup Of INSTANT POSTUM

contains the same uniform quality of goodness that makes this table beverage so popular.

Make it strong or mild as you prefer by varying the quantity used. No wonder so many prefer it to coffee, not alone on account of taste but because of its abundant healthfulness. Truly-

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we have proven over and over, and can do it over and over again.

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Treating Seed Potatoes

Questions and Answers-By Dr. G. H. Coons

minutes to one and a half hours. With or alfalfa sod, look out. this solution potatoes showing black Q .- Does manure make scab? A .scurf should be sorted out. (b) Cor- No, but manure tends to make the soil rosive sublimate, four ounces to thirty reaction alkaline and this favors the gallons. Treat for thirty minutes to seab germ. Treatment of seed makes one and a half hours. This controls manuring safe with potatoes. both scab and black scurf.

peatedly? A.—Formaldehyde, yes; You may have reinfected the tubers corrosive sublimate, no.

times, then discard; or add one ounce have a scab-infected field, due to failafter each batch is dipped, keeping the ure to rotate potatoes. Garden soils solution up to the thirty-gallon mark often give scabby tubers from this by addition of water.

Q.—Is it safe to dip cut seed? A.— It is not always safe. We have had A .- No, and furthermore it won't confailures from dipping cut seed. Play trol "bugs."

in the solutions? A.-We did in an good farmer tries to fool nature. Plant experiment and killed every potato. only sound, smooth tubers. One and a half to two hours is the Q.—Is scab caused by wireworms or safe limit. Let the experiment station white grubs? A .- No, but certain soil do the experimenting.

Q.-What about the hot formalde- making what we call deep scab. hyde recommended by the Iowa Sta- Q .- Can scabby seed be sold? A .thirty gallons at 120 degrees F.? A .-This is all right for scab but of doubt- blemish. ful value for black scurf.

dehyde gas treatment? A.-No.

Q.—How many eyes do you recommend? A .- Send for Michigan Experi- crops? A .- Beets, surely; other root ment Station Quarterly Bulletin for crops are probably attacked but the May, 1920.

Q.—How shall I get rid of the poi- Q.—Do scab and black scurf occur ground where it will seep away.

Q.—What shall I use for treating? cleared forest soils. A.—For quantities up to fifty bushels, Q.—Is there a bulletin on potato disquantities make a vat of heavy lumber, Michigan. line with tarpaulin large enough to hold twelve crates. Some people use a flat bottom boat and scoop out the

ployed? A.—For formaldehyde, yes. can I treat the seed with to prevent it? Corresive sublimate, no, use wood or Calhoun Co. J. R. Corrosive sublimate, no, use wood or

after treatment? A .- As long as you was what is called Tip Burn, formerly please, so that they do not heat, freeze thought to be due to hot, dry weather, or sprout excessively. Cut tubers must but now assigned to the attack of leaf be kept cool and dry.

ed potatoes? A.—We have treated it is fine for scab and Rhizoctonia. them thirty minutes without injury.

A .- Yes, scarce and high. Get yours inches high and keeping at them all

ment? A .- No, the old methods work Mixture. Send to the Michigan Agriall right if you will do your part.

treated, have never had any scab? A. and whys of spraying.

Question.-What solution does the -Acid soils tend to decrease scab. college recommend? Answer.—(a) You have an acid farm. If you ever Formaldehyde, one pint to thirty gal- get a good stand of clover or alfalfa lons of water, for scab, treat for thirty and then put potatoes on a good clover

Q.-I treated and still have scab. Q.—May the solutions be used re. How do you account for it? A.—(1) from old sacks or crates; (2) you may , Q.—How can corrosive sublimate be have a naturally limy soil. Scab is kept up to strength? A.—Use four hard to control here; (3) You may cause.

Q.-Will treatment control blight?

Q.—Is it safe to plant scabby seed? Q .- Should seed be left over night A .- Scabby seed is poor seed, and no

animals, the mites, deepen scab spots,

tion, in which tubers are treated two The government grades restrict the minutes in formaldehyde, one pint to amount of scab permissible to a low figure and tubers must not show much

Q.—Does scab vary with seasons? Q.—Do you recommend the formal- A.—Hot seasons bring greatest number of reports of damage.

Q.—Does scab affect any other scab is overlooked.

sonous solution from corrosive subli- naturally in soil? A .- Yes, scab probmate? A.—Pour it into a pit on sandy ably exists in limy soils naturally. Black scurf seems worse in newly

use barrels. Tight sugar barrels, oil eases? A .- Yes, Special Bulletin No. or vinegar barrels are fine. Rig up a 85, of the Michigan Experiment Stapulley to raise the sacks. Treat about tion, can be had free upon application two bushels at a time. For larger to Director R. S. Shaw, East Lansing,

WAS THIS POTATO BLIGHT?

Did we have late blight last year? Q.—Can a metal stock tank be emblight about the middle of July? What

Late blight did not appear last year Q.-How long can the tubers be kept in Michigan. The blight you refer to hoppers. Seed treatment is not effec-Q.—Is it safe to treat green sprout- tive in preventing this trouble, though

You will have to spray your pota-Q.—Are chemicals scarce this year? toes beginning when they are a few the season at intervals of ten days to Q.—Is there anything new in treat- two weeks. Use home-made Bordeaux cultural College for Special Bulletin Q.—Explain why I, who have never No. 85 for a full discussion of the hows



Tuber Affected with Black Scurf.

HEN WITH WARTS.

We are subscribers to the Michigan Farmer and certainty appreciate it very much. We have a Plymouth Rock hen who has bunches of various sizes on her feet and legs up to the first joint. They vary in size. Do not look sore. They are like warty growths. Some are raised up more than others. She appears healthy, eats good, combs are good color and she is plump and healthy looking. What can be done for her? for her?

Tuscola Co. Horny growths or warts are occasionally found on the skin of fowls as is the case with other animals. We know of nothing that is practical to do in such a case. The trouble may not cause the bird any inconvenience or reduce her vitality or egg-laying ability. We would simply cull out any hens that are so afflicted and not use them for breeding purposes. The growths do not often occur and you may never have another hen develop them.-K.

FEEDING THE LITTLE CHICKS.

Limited feeding for young chicks during the first few days and weeks after hatching is advised by Prof. C. H. Burgess, head of the poultry department at M. A. C., who has prepared a set of simple health rules for the fluffy youngsters.

"Practice retarded or limited early feeding," says Professor Burgess. "Nature has provided the newly hatched chick with a 'bread basket' containing sufficient food to last from sixty to seventy-two hours. Before emerging from the shell the yolk is absorbed into the body of the chick for neurishment during the first three days of its existence. Do not feed too soon."

Professor Burgess has outlined the essentials of the chicks' care in a special chart which shows what steps should be taken each day. These may be summarized as follows:

First Day.-Leave chicks in incubator and supply more pure air.

Second Day .- Provide sour milk in shallow pans; also feed some chick grit.

Third Day.-Give first solid food. This mash is suggested for one hundred chicks: One raw egg, three small handfuls of rolled oats and three small handfuls of bran. Thoroughly mix by rubbing and give four feeds three hours apart. A dash of fine charcoal and bone meal helps.

Fourth to Fourteenth Day.-Keep chicks hungry and active. Give two feedings of commercial chick feed, two feedings of the egg, oat and bran mixture, and one feeding of green food, sprouted oats, lettuce, etc. Supply hourly skim-milk for at least first two weeks.

After Second Week.-Simplify and cheapen the ration. Substitute the following mash: Bran, middlings, corn meal, ground oats, equal parts by weight, and ten per cent meat scrap. Increase the size of grain feed as the chicks grow older.

These points should also be kept in

A dry mash of bran, ground oats and meat scrap will prevent toe picking and other cannibalism.

Do not overfeed, prevent crowding, provide plenty of fresh water and keep them exercising.

COMMISSION FOR SALE OF LAND.

If a land agent brings a man from a nearby city out to our section to buy a farm and I sell to this buyer, can the agent collect from me a commission when there has been no previous conversation between the agent and myself about the selling of the land?—J. K.

There is no liability to pay commission for the sale of land in the absence of a written agreement to do so signed by the party sued. Our statute J. R. R.



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Affection Send for my special price on S. C. W. LegPostpaid. H. W. TIMMER. R. b., Helland, Mich.

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Barred Rocks one contest winners ease from strain per setting presend by P. P. Circular free. FRED ASTLING, Constantine, Mich.

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CHICKS We have shipped thousands each season since 1904. Are booking orders now for Spring delivery, booklet and testimonials. FREEPORT HATCHERY, Box 12, Freeport, Mich.

Fowler's Buil Recks. We are now booking or cockerels left, R. B. FOWLER. Hartford, Mich.

Edgewood Chicks S. C. White Leghorns, Barron EDGEWOOD POULTRY FAIM, Brighton, Mich.

Additional Poultry Ads on Page 885



Premo Jr. Camera

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 applied to-all cameras made by The Eastman Kodak Company. It loads and unloads in daylight with the Premo Film Pack of twelve exposures. It makes pictures 2½x3½ inches in size and the negatives are of such quality that excellent enlargements can be made from them.



The instrument is fitted with an automatic shutter, which works for both time and "snap shot" exposures, and the best grade of single achromatic lens that can be obtained. It has two finders, one for vertical, the other for horizontal pictures—in fact, it is as well equipped a camera as could be well equipped a camera as could be wished for in the box type. It will produce first-class results in all ordinary amateur photographic work, such as snapshots in good light, time exposures, home portraits, landscape and street photography, and the like. This camera is unusually simple to load and operate. A complete book of instructions 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 subscriptions, or for one subscription and \$1.50 additional.

THE MICHIGAN FARMER, Detroit, Mich. Circulation Dept.



Marketing Woodlot Products

(Continued from page 855). needed.

The buying of cedar posts and poles the lowest possible intermediate as well as through heavy buying of

Other products, as shingles, grape building purposes. stakes, and even building materials of distributed through organized effort.

Timber Conservation.

A matter which is yearly receiving more and more attention from thoughtmore attention and is the cause of vidual farmer uses one hundred or est and woodlot areas is self-evident to more fence posts a year he is seldom any thinking man. justified in maintaining a treating plant of his own, while the small makeshift barrel size outfits are shallow and wasteful of time and creosote to such an extent that their usefulness is lim- THE advent of the automobile has ited to certain purposes.

The Large Custom or Cooperative Preservative Plant.

concerned.

private plants and if the buying of ducing permanent good roads. ereosote as well as operation of township plants were handled by organized survey and then the exact fulfilling of effort the service would be greatly ex- same in the work performed would tended and the life of the treated wood seem to assure good results, but as one when used in the earth greatly in-rides over some of our state reward creased.

Community Effort Needed.

The advantages of an overhead organization for the successful marketing and distribution of woodlot products are possible and workable. Such a plan is not a fancy or a dream, but a very real need if waste and needless sacrificing of values are to be over-

Whether the organization is already the people of the state.

ber who have tried to sell that timber the road drag. to all.

farm crops. Instruction and personal pass into the ditch. service in planting and cultural opera- These are truly busy days, yet our farm crop.

reliable data to timber owners by estit in proper condition, for the taxpayer, mating values of salable timber, cord-though he live on a highway somewhat wood, posts and other products, for retired, yet would appreciate having which just charges should be made the road passing his home properly would constitute a very important di- cared for as do we who fortunately vision of this service. In connection have a state reward highway passing with such service, much could be done our homes. Let's not allow any "ruts" to establish uniform scales and prac- of any kind to remain.

tices of measurement of forest prodother sections of the state where ucts between woodlot owners and buyers.

Fourth.—The use of valuable woods is a distinct service which should be for common purposes would be easily undertaken by the farmers themselves and quickly stopped through opening in organization and distributed with of wider markets for special products common grades of lumber for farm

It may be safely said that any coopall kinds might well be added to the erative or organized plan of operation long list of services which should be that is broad gauge and state or nation-wide will soon eliminate the need for destructive and wasteful methods of handling our woodlot wealth, by broadening the demand, facilitating ful farmers is that of timber preser- exchange, conserving waste or extravvation. The short life and high first agance in use and by prolonging life of the available supplies. That such a ephone pole is annually attracting program would be profitable and that it would lead to better and more innumberless queries. Unless the inditensive production and planting of for-

GOOD ROADS.

BY J. T. DANIELS.

general desire for good roads which everyone may enjoy who rides on our Several plants for custom fence post highways. The earnest efforts now treating are to be found in the state being made by state and nation to and these seem to be operating along meet the demand in this matter it is right lines, so far as minimum of waste hoped will bring the desired results, and thoroughness of treatment are but in order that this may be made certain, much care will be required Of course, charges vary widely with lest the expense incurred fail of pro-

The necessity for careful and correct roads, evidence is seen of failure to comply with the requirements that "the slope of the roadbed shall be such that the water may run readily into the side ditches," for on portions of these roads their level or nearly level condition causes the rains to soak into the ground where it falls instead of running into the side ditches, and thereby much harm results to the roadbed.

Very great improvement of our highcreated or whether it is yet to be born ways would result and without large matters little, so long as it works out cost, if the road graders and road the service demanded by small acre-drags or scrapers purchased and ownage timber owners everywhere in the ed by each township were put to their state, and carries efficiently and accu- proper use at the right time instead of rately that service for the benefit of being left to rust out in idleness. The filling of the ruts when the soil is in First.—Such a service must be state- proper condition—not too wet nor too wide and should include definite lines dry-can be accomplished with the of activity that bear upon future tim- proper and already provided tools with ber production as well as present con- comparatively small cost, a faithful sumption and demand. That the need man with a good span of horses being for a good market is urgent is ac-able to fill the ruts for a number of knowledged by owners of standing tim- miles, in each day's faithful work with

to advantage during the past few years. It is readily seen that there should And in order to be effective to all it be a graded slope from the crown of must be a market that is available the road to the bottom of the side ditch, instead of making the ditch Second.—Any service that provided nearly perpendicular on the side next for the marketing of timber and did to the turnpike. If this be done, the not encourage the production of tim- water would, as previously stated, run ber as a distinct farm crop would be into the side ditches more readily and lop-sided. The production of timber there would be less danger of harm remust be made as intensive as other sulting if a vehicle should accidentally

tions should become as necessary an roads ought not to be left in the rutadjunct to this phase of service as the ted condition in which many miles are selection of good seed is to annual found. A vigorous public sentiment should be created sufficiently strong Third.—The gathering of accurate to make and keep all of our highways

THE TREASURE IN THE HAY

(Continued from page 879). and his eyes flashed with determination. There was not a tremor in the voice that cried a sharp warning: "Stand back!"

Something in the timbre of that voice caught the ears of the men. They saw the muzzle of that shotgun move a trifle higher. And they fell back.

A moment later Rob heard voices and quick steps just outside the barn door. Shadows fell across the doorway; and a man stepped in. Rob recognized him as the neighbor's hired man. He carried a hay rope. He took one look at the two men, then at the muzzle of the shotgun protruding from the granary door. And he promptly started tying the captives. An instant later Rob dropped his useless gun and walked out of the granary.

"I telephoned the sheriff, all right," explained Ben; "but on my way back I saw Tom down in the meadow. I ran for him so fast I nearly lost my suspenders."

There was another surprise in store for the boys when the sheriff came. That officer at once recognized the two prisoners as yeggmen for whom there was a big reward. He insisted that it belonged to the boys. Mr. Warren saw no reason why they shouldn't accept it, so, after insisting that the hired man get a third share, Rob and Ben agreed to go to town with the sheriff and claim the money.

and claim the money.

The sheriff wanted to take along the shotgun as a further precaution—and then Rob had to tell. The amazement and chagrin of the thieves was laughable when they learned that they had been captured by a plucky boy with an empty gun.

"My, oh, my!" exclaimed Ben.
"Wasn't that funny? And what a brave
fellow Rob is! Just like me. Me—I
wasn't ever scared a bit."

"After all, it isn't the gun that counts," said Mr. Warren. "It's the man behind the gun. Rob is not the kind to give up easily. If he had gone swimming like the rest, he wouldn't have found this stolen jewelry. But he stuck to his job. And if he had given up when he remembered that the gun was empty, the thieves would have escaped with their loot. But Rob didn't give up. He stood his ground. I can always depend on my Rob."

A lump came into Rob's throat as big as a doughnut. He was glad now that he had done as he knew his father would have done; he was glad he had not given up.

TRESPASSERS ALONG STREAMS.

A creek runs through our land, but every year crops' are destroyed by trespassers going to and fro along the banks of this stream. What rights have we, and can we recover our loss? L. D. H.

No one has the right to travel on the banks of a stream on private land without the consent of the owner, and the same remedies exist for such trespasses as for any other. The trespassers may be ordered out and put off with gentle hands, or they may be sued in trespass for the damages and costs.

J. R. R.

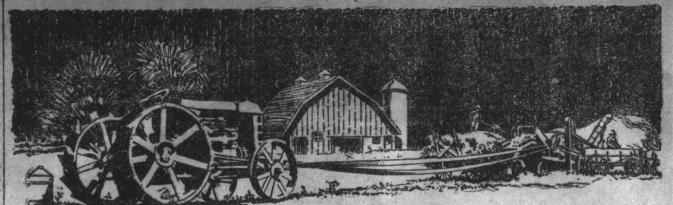
MOVING LINE FENCE

A line fence which had been in the same place for nineteen years was changed when tile drain was put through, supposedly on the line. On account of the swampy nature of the land the drain was crooked and made necessary the building of a crooked fence. Now drain is established elsewhere. Can I make county surveyor establish the true line so I can rebuild line fence?—C. K.

If the questioner knows where the

If the questioner knows where the line is he can put the fence back without any reestablishment of the line. If not, he can have a new survey made by the county surveyor.

J. R. R.



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Get the utmost efficiency from your Fordson by belting it to an individual thresher and handling your own small grain crops. The more belt work your Fordson does, the greater will be the return on your tractor investment. With an individual outfit you plan your work—you thresh when it is most convenient to you.

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The Little Giant belt is endless so there are no belt ends to pull out and no stops for relacing.

It has a powerful clinging pulley-grip that not only conquers slippage but also overcomes any tendency toward throwing the belt off when a bunch of wet bundles goes through the separator.

It is unusually serviceable and withstands to a marked degree the effects of exposure to moisture, heat and all the ordinary enemies to belt efficiency in farming.

It is made of four plies of a single piece of best quality, heavy canvas, pressed, stitched, with double stitches at the edges to withstand edge wear. Its special design compels it to run straight and true always. You can get Little Giant belts in three lengths—50 ft., 75 ft. and 100 ft. from your Fordson dealer.

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3.60, 2 for 55. Vorn Moore R. I Hartford, Mich.

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W. M. Finck & Co. Detroit, Mich.

Manufacturers of High Grade Overalls, Men's and Women's Combina-tion Work Suits

BRANCHES:

St. Louis, Mo. Dallas, Tex. Seattle Wash Chattanooga, Tenn. Livingston, Mont.

BREEDERS' DIRECTORY

Change of Copy or Cancellations must reach us Ten Days before date of publication

Wildwood Farms Angus

Home of Edgar of Dalmeny one of the world's

Home of Edgar of Dalmeny one of the world's greatest sires.

He produced Erodemas, the grand champion bull at show in Perth. Scotland in Jan. 1919, and IHHE produced Blue Bell a cross-bred heifer which was awarded the championship at the Smithfield, (Eng.) fat stock show in Dec. 1919. (The latter is Englands, equivilent of our Chicago International.)

Edgar is now an American Citizen, and is here for the purpose of bettering the breed in this country.

country.

Edgar's calves are as yet too young to offer for sale but they are a promising lot and are being spoken for fast.

We have a few choice young bulls by Black Monarch III who won the Mich. State Fair Grand Championship in 1914-1915-1916, still for sale.

Our herd is under State and Federal supervision A visit will interest you, write for particulars.

WILDWOOD FARMS ORION, MICHIGAN

W. E. SCRIPPS, Prop.,

Sidney Smith, Supt

WOODCOTE ANGUS

Established in 1900 Trojan-Ericas and Blackbirds. Write for 1920 Bull sale list WOODCOTE STOCK FARM,

For Sale At reasonable prices. Registered Aber ten to twenty-two months of age. LANG BROS. Davison, Mich

Phree registered Guernsey bull calves. May Rose breeding closely related to Spottswood Daisy Pearl, polify Dimples, Langwater Naney, Langwater Hogel, Langwater Langwa

Reg. May Rose Guernseys armer prices. Send for picture and pedigres. lards on Federal Accredit List.

CAMDEN 1.

JUERNSEY BULL CALVES whose 460,20 milk, 309,05 fat. Their mother's sire's dam add do 15,199,10 milk, 728,80 fat.

FOR SALE Three Aberdeen-Angus bulls, and seven months. Bred from the best stock in America. Also 520 acres land in Isabella County.

BRINTON F. HALL, Belding, Michigan

Registered GUERNSEYS.-Two orders for the same ball ealf the same day makes a fellow mad, just one lifet, that will be old enough for service in a couple of months.

J. M. WILLIAMS. North Adams, Mich.

For Sale Registered Guernsey bulls. May Rose write. John Ebels R, 2 Holland, Michigan.

GUERNSEYS -REGISTERED Containing blood of world champions. HICKS' GUERNSEY FARM, Saginaw. W.S. Mich

Herd Federal inspected. Bull calf Guernseys. 7 mos old, sired by a son of Imp. Spotwoods Sequel Dam, a high class cow of A. R. breeding. \$150 take him. 5 others 3 to 6 mos. old priced right. Satisfaction guaranteed. G. W. & H. G. Ray. Albion. Mich



Average 7-day Milk **Production 433.4 Pounds**

all world's records for milk and butter fat production.

During the year just closed 9,524 Holstein cows and heifers were under test. The 8,619 animals tested on short time test taken as a herd, the average 7-day production for each animal was 433.4 pounds of milk, showing an average of 3.59 per cent of butterfat.

Send today for our illustrated and valuable booklets giving all the facts pertaining to purebred Holstein-Friesian cattle and their wonderful progress. Write today.

THE HOLSTEIN-FRIESIAN ASSOCIATION
164 Hudson Street
Brattleboro Vermont.

The Agricultural Outlook

A Reader's Opinion

in payment of the Michigan Farmer much it costs per day to keep them; if for a period of five years. I like your the hens lay a dozen eggs they are editorials on farming subjects better charged five or ten cents a dozen for than I do the editorials of some other selling them, if they do not lay, they farm papers that I take, of which there are not charged for selling them. If

ers supplying milk to Detroit are up that week, and I know how many dozagainst a price for milk set by the en eggs I have for that week and try Federal Fair Price Committee that is to fix a price accordingly. I sell direct below the cost of production. This to the consumer and the past two price-fixing by outsiders is all wrong, years have no kick coming. in my way of thinking. Suppose some on and turned into food fit for human toes after leaving the farmer's hands. consumption, that there will come a I would like to see the farmers have I hope so.

Gentlemen: -I enclose check for \$3 I know how many hens I have and how I market the eggs once a week, I know I note in recent issues that the farm- how much it has cost to keep them for

I am in favor of only one farmers' outsider set the price for your paper, organization, that organization to have or an advertisement in it, for example; the first and last word to say at Washsuppose the taxpayer set the amount ington, and to the consumer. The midof tax he should pay, how much tax dlemen I would cut out wholly, if poswould the government get? It is wrong, sible. I claim there is not any real This cost and price-fixing of dairy pro- value added to an article by passing ducts is a big proposition and should through a half dozen hands, nor in be settled wisely. Let me venture shipping it back and forth from one this prediction: that if the farmers do party to another. For instance, you not keep enough cattle on the farms take a bushel of potatoes, there is no to consume the roughages grown there- more food value added to those pota-

time, sooner or later, when the human one good, strong organization. There race will have to consume these rough- is getting to be so many now that noages themselves. I may be mistaken, body at Washington or anywhere else, knows who is speaking for the farmer. I would like to give you a little of I-would like, if it is not asking too my experience. I purchased this farm much, for the farm papers to ask the six years ago this spring; had some- opinion of its readers as to forming a thing over \$1,100 left after paying for national organization, with subsidiary

A Group of Holstein Boosters



it; the second year had to borrow state, county and town organizations, cost accounting in 1916 at which time ucts the farmers buy and sell. it cost me fifty cents a day to keep a cow; thirty-seven cents in summer and sixty-three cents in winter; I weigh the milk from each cow and keep a record of it, also test each cow's milk with a Babcock tester. I find that the average cost of producing a quart of milk per year is 10.6 cents and that the average cost of producing a pound what alls them, and what can I do of butter per year is 72.4 cents. This for them? of butter per year is 73.4 cents. This for them?

Cost was to the tally-board in barn Montcalm Co. cost was to the tally-board in barn. The cost of selling the milk and but-

hen at one and a half cents per day; as possible.-K.

money to pay taxes; this set me to for the purpose of handling all prod-

W. A. MORSE.

HENS DIE ON NESTS.

When the hens are laying heavily in ter, and the cost of making the butter the spring it is not unusual to occashould be added to this. The average sionally find a hen dead on the nest price I got for this butter, (1918), was or under the roosts. A post mortem The great and growing popularity of the Holstein breed is wholly due to high average production, regardless of the fact that Purebred Holsteins hold of dairy products: All farmers should cause of a hemorrhage of the brain, aim to have their cows come fresh at commonly called apoplexy. This seldifferent periods so as to keep a con-dom occurs except among very fat stant supply as near as possible. The birds. Then it is due to over-strainfarmers to have town, county, state ing during egg-laying, or to the eating and United States organizations of too much heavy feed. If this has through which they sell not only their occurred a post mortem will show dairy products, but all products of the clots on the brain. An occasional loss farm. It should be the business of of this kind need not cause too much these different organizations to know worry as fowls are subject to a certain the amount of milk produced and the per cent of mortality the same as othnumber of cows in the dairies that pro- er animals, even though their living duce it, to find the cost of production conditions are the best. However, it and fix the price accordingly. Here is pays to try and locate the cause of the way I work the scheme with hens: every possible loss and thus reduce I have figured the cost of keeping a the mortality rate to as low a per cent

THE HOG TRADE.

NOT long ago prices for hogs fell to the lowest level recorded in a long time, but the market rallied later on better general buying, with espe cially good purchases of the better class for shipment from Chicago to eastern shipping points. There has been a great narrowing in the spread in prices, with the bulk of the sales made in the Chicago Stock Yards at a range of seventy cents per hundred pounds, and prime light to medium weight butchers weighing from 190 to 250 pounds market toppers. The best heavy butcher hogs sell forty-five cents below the highest prices. Rough heavy packer hogs are lowest of all in price, selling at an extremely large discount, but of late there has been a pronounced improvement in the demand for the better class of heavy hogs. Recent receipts of hogs have averaged in weight only 235 pounds, or seven pounds less than a week earlier, many owners letting their young hogs go to market, as they feared further reductions in prices. The domes tic consumption of fresh and cured hog products continues extremely large, despite their unusual dearness, for retail butcher shops fail to mark down their prices in accordance with the declines in wholesale prices. Reductions in hog prices since the high time last year have been enormous, and recent sales were made in the Chicago market of pork around \$21 a barrel lower than a year ago, lard and other cured products showing similar price reductions. The foreign trade shows gains in recent exports of lard, but the exports of hog meats shows a big falling off as compared with those for a year ago. During a recent week exports from Atlantic ports included 9,041,000 pounds of lard, comparing with 10,719,000 pounds for the corresponding week of 1919, while exports were made of only 9,030,000 pounds of cured hog meats, comparing with 28,-949,000 pounds a year ago.

COLLAPSE IN LAMB PRICES.

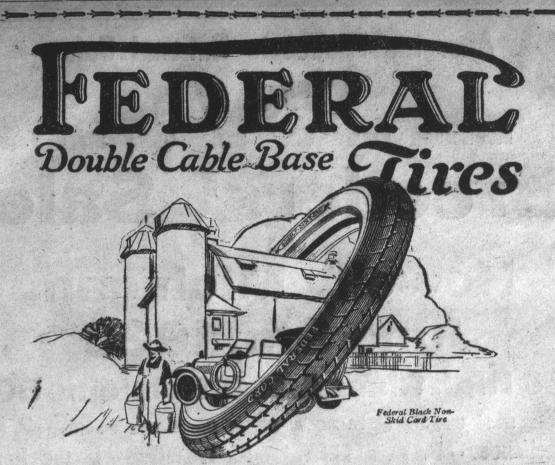
THE recent slump of \$2.00 to \$3.00 per hundred pounds in lambs placed the Chicago market on the lowest level of the year, but there was a fair reaction later in prices for the better class. Everything now goes to mar ket shorn except spring lambs, the principal part of the springs coming from California, and their average quality is much poorer than a year ago. Prices for these flocks cover an extremely wide range, there being a spread of about \$4.75 per one hundred pounds between the best and the poorest, and sales have taken place of thin extremely light weight California spring lambs as low as \$13.50 per one hundred pounds, some lots of the same kind going to packers at that price. The Chicago market has been adverse-The Chicago market has been adversely affected by the heavy importations during recent weeks of frozen carcasses of New Zealand lambs, these committees of New Zealand lambs, these committees into direct competition with native lambs. As usual, the big packing firms doing business in Chicago have kept on bringing in large supplies of on bringing in large supplies of last year's lambs from western primary points, thereby checking competition in the open market, and this is

Sign of the competition in the open market, and this is

Korndyke, whose dam, a daughter of Poutlas Augric

Korndyke, made 123 pounds butter in year with

Average test of 4.53% fat. Calf % white, large. naturally a powerful bearish influence. Great numbers of Arizona and California spring lambs have been arriving on the Kansas City market, as well as Texas sheep and goats, and in a recent Fifteen High Grade Holstein Cows For Sale day there were arrivals in the Fort E. A. HARDY, Rochester, Mich. Worth, Texas, stock yards of about eight thousand goats. It is customary for the goats to become "tamb" after slaughtered. Fair sales are made of ewe lambs for breeding purposes at \$11.25@12.50. Extremely few wethers and ewes are being sept to market, and prices are mostly nominal.



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When you use Federal Tires, your power drives the car-it doesn't run a grist mill, of wheel-rims against tires.

Federal Tires are grappled inseparably to the rims by four steel cables—the Double-Cable-Base—exclusive to Federal Tires.

This is why Federal Tires do not come off, slip, slide or creep, rim-cut or blow out just above the rim.

Avoid rim-troubles-get the mileage that thousands of other Federal users are getting. Go to the Federal dealer and equip with Federals.

THE FEDERAL RUBBER COMPANY, of Illinois, Factories, Cudahy, Wis. Manufacturers of Federal Automobile Tires, Tubes and Sundries, Motorcycle, Bicycle and Carriage Tires, Rubber Heels, Horse Shoe Pads, Rubber Matting and Mechanical Rubber Goods

Winnwood Herd -SENIOR HERD SIRE-Flint Maplecrest Boy (166974)

Flint Maplecrest Boy (166974)

4 years old and weighs 3000 lbs. We have a few
of his sons ready for service and some little fellows straight as a time and priced right the daughters of Flint Maplecrest Boy are making good.

—JUNIOR HERD SIRE.—

Sir Ormsby Skylark Burke (249 66)
A brother to the world champion cow over all
breeds funches. Syklark Ormsby 1506 lbs. of
butter in one year. He is the best head Ormsby
built in Michigan his dam a daughter of King
Segis Pontiac she is a sister to King Segis Pontiac
Count and the \$50,000 bull King Segis Pontiac

JOHN H. WINN, (Inc.) ROSCOMMON, MICH.

PEED BURKE. - BRANCH, MICH.

Holsteins of Quality

OUR HERD SIRE Model King Segis Glista

By a 30 lb, mm of Enkeside King Segis Alban De Kel-Rin dam Giftin Francisc 22.77 lbs. Her dam Giftin Er-nesisino 53.58 lbs. His three meanest dame evolvage over 37 lbs. and his fact-old meanest tested man evolvage age ever 26 lbs. af bottor in seven days. Write for pri-ces on his som.

Grand River Stock Farms c. C. Twise, Mgr. Esten Repids. N. ich.

150 Buys reg. Holstein heifer past 1 yr. old. Good individual, high class breeding, guar-teed O. L. B. B. REAVEY, Akron, Mich.

A Sand Role accepted in payment of finely bred rog of the best, and at prices within reach of all. Write GEO. D. OLARKE. Yassar, Mich.

A BULLY GOOD BULL CALF.

R.E.G. Holstein Bull has been my Senior Hard sire, 2 doms average 31 lbs, must sell to avoid inbreeding a t have 18 daughters of his. J. R. Hicks, St. Johns, Mich.

BULL CALVES FOR SALE

From dams with good records.
BULL CALVES SIRED BY 45 lb. BULL.
BULL CALVES SIRED BY 34 lb. BULL.
BULL CALVES SIRED BY 33 lb. BULL.
PRICES VERY REASONABLE. Privelege of return if not satisfied.

A. W. COPLAND, Birmingham; Michigan Herd under State and Federal Supervision.

For Sale: Registered Holstein Cattle, our herd sire born March 27, 1917, Scows, and 3 heifer calves. Write for records and particulars to the MLACK & WHITE FARM, Fremont, Mich.

Grade Up Your Herd with a pure bred Holstein sale at low prices.

JOSEPH H. BREWER, Grand Rapids, Michig

The Traverse Herd We have what you want in BULL CALVES, the large, time growthy type, guaranteed right in every way. They are from high producing A. B. O. ancestors. Dum's records up to 20 lbs. Write for pedigrees and

quotations, stating about age desired.

TRAVERSE CITY STATE HOSPITAL Traverse City, Mich.

FOR SALE three Registered Reduction-Fiscalan fine cases, best of breeding, wired by a Postlar Bull. Will self one or the three. HERRY S. ROHLFS. Akron. Mich.

(State and Federal Tested)

Ypsilanti, Michigan

Offers young sires, yearlings and younger, out of choice advanced registry dams and King Korndyke Artis Vale: Own dam 34.16 lbs. butter in 7 days; average 2 nearest dams 37.61, 6 nearest 33.93, 20 nearest 27.83

Bazley Stock Farm YPSILANTI, MICH.

Increase Your Production at the Price of \$50.

Bull born May 3rd. Sire a grand son of John Hengerveld Lad 61 A. E. O. daughters. Dam a 2 year old grand daughter of a 21 ib. Cow-that will be tested at next freshing. We have just finished testing 2 cows. One made over 30 lbs. the other made 27 95 from 779 lbs. of milk in 7 days.

JOHN BAZLEY DETROIT, MICHIGAN.

20 Cows and Heifers of popular breeding for sale also bulls not related.

ALLEN BROS. MAICHIGAN PAW PAW.

After the Minnesota National Sale

Gluny Stock Farm The McPherson Farms Co.

Breeders' Sale

Howell, Michigan June 8th, 1920 50 High Class A.R.O. Holsteins 50

Sale Begins at 10:30 A. M. at the Sales Pavilion Auctioneer -- B. V. KELLEY S. T. WOOD -- in the Box

McPherson Farms Co. & Cluny Stock Farms Howell, Michigan

Herefords. Just purchased 3 new herds, now have dither sex, horned or polled, any age. Priced reasonable.

THE MCCARTYS. Bad Axe. Mich.

HARWOOD HEREFORDS

Can spare a few females, cows with calf at side, open or bred heifers, also a few bulls old enough for ser-vice. Breeding and condition right.

Jay Harwood & Son, Ionia, Mich. Farm Sia Miles South of Ionia

The Wildwood Farm Jersey Cattle, Majesty strain, Herd on State accredited list, h. of M. testing constantly done. Bulls for pale. ALVIN BALDEN. Phone 143-5, Capac, Mich.

BUTTER BRED JERSEY BULLS
FOR SALE
CRYSTAL SPRING STOCK FARM,
Silver Creek, "Allegan County, Michigan.

FOR SALE Hersey Bulls ready for service R. of M. ancestors. Raleigh-St. Lambert breeding. Jerseys stand for economy. Waterman & Waterman, Packard Rd. Ann Arbor, Mich.

For Sale Jersey bull calves of Najesty breeding from ment "Accredited List." Write for price and pedigree to C.A. TAGGETT, R. 2, Fairgrove, Mich.

LILLIE Farmstead Jerseys—A few heifers bred to freshen soon, heifers bred to freshen next fall, 3 cows, R. of M. bull calves. C.C. Lillie, Coopersville, Mich.

Bulls ready for service from our herd bull Marguerites
Premier, gdson, of Pogis 99th of Hood Farm, and cows
now on test for R. of M. Smith & Parker, Howell, Mich.

Por Sale. Jersey bull ready for service stred by Flying Foxe's Gay Lad. Dam record 472.5 lbs. butter 9675 lbs. milk. Notten Farm, Grass Lake, Mich.

SHORTHORNS

a bull that will put weights on your dairy calves— the difference will soon pay for the bull. Now selling good Scotch and Scotch-topped yearlings, reasonably priced. A roan, senjor yearling, a Missie of Villager breeding, a herd bull prospect, Fedesal Test.

BIDWELL STOCK FARM; x D, Tecumseh, Michigan

Richland Stock Farms

Home of the Michigan Champions. Shorthorn Sires in Service:

IMP. Lorne, IMP. Newton, Champion, Sterling Supseme. Why not buy a young bull to head your herd that carries the blood that is making Shorthorn History. Only a few real headers left. Write your wants.

C. H. PRESCOTT & SONS, Tawas City, Mich.

Royal Bruce 75521 heads our herd Three one Cluny Proud Augusta going to head Win Plathies of collyne Scheed at \$21,000,00 One bull and a namber of females for sale.

OARK BROS. & CO.

Norman Carr, Secretary.

For Sale Shorth erns of Quality Scotch and Scotch Topped descendents of Archers Hope. Avondae. Max walton Sulton and White Hall Sulton. Model Type, by the Oscola Co: Shorthorn Hypeders Ass. John Sch midt. Sec. Reed City, Mich.

Central Mich. Shorthorn Breeders Asso. offer OSCAR SKINNER, Sec. Gowen, Mich.

Shorthorns Scotch and Scotch Topped bulls and heifers priced right. Sultan Champion heads herd, one scotch two yt.old herd bull by Red Cumberland priced right.

H. J. FLOWER & SON, c.: Milo, Mich.

THIS IS LIBERTY



LIBERTY - 106535

Bred by IRA A. JACKSON BROAD VIEW FARM HERD BOAR

He is an intensely bred Orion Cherry King boar from Fancy Orion King 6837 and Miss Cherry Bob 219,782. Don't make them any better. A sure producer, in a class by himself. Has a reddish golden coat, the kind so eagerly sought by breeders.

We offer sons of Liberty ready to serve, also gilts in pig to Liberty, the typey kind that were bred right.

Booking orders for Spring pigs to be shipped when weaned. Write for our special introductory offer for next 30 days. An opportunity worth while.

Our three great herd boars, Liberty, Proud Cherry King, 2d, Merridels King Willetta.

BROAD VIEW FARM, Inc.

La Porte, Indiana

SOWS FOR SALE O. I. C.

One of the Best He ds in Michigan
Spring gilts and fall ye arlings bred for March, April and May litters. I ship
C. O. D., pay express and register in buyer's name. If you want a BIG
TYPE sow, guaranteed right in every way, write me. R. 5, Mason, Michigan. J. CARL JEWETT,

One Shorthorn bull, eleven months old, extra good.
TED WALDO, R. 3. Grand Ledge, Mich.

The Kent Co. Shorthern Assn. have males and for sale. A. E. RAAB, Sec., Caledonia, Mich.

Milking SHORTHORNS. Clay bred bull calves
Davidson & Hall, Beand & Beland, Tecumseh, Mich
Shorthorns Good Scotch bred bulls, cows and
helfers priced right,
W. B. McQUILLAN, R. 7, Howell, Mich.

M EADOW Hills Shorthorns. Herd headed by Sil-due University's great sire. For sale-females of all ages, a few young bulls. Geo. D. Doster, Doster, Mich.

Shorthorns Scotch and Scotch Topped, only a few left at old prices.
W. J. BELL, Rose City, Mich.

St. Joseph Valley Shorthorn Ase'n ha males of all ages and best breeding.
AARON HAGENBUCH, Sectreas Three Rivers, Mich

Wayside Farm Brown Swiss—I yearling bull, 2 bull calves 7 mo., well bred, well fed, good individuals, satisfaction guaranteed. Ervin R.Moore, Osseo, Mich.

HOGS

Berkshires size with quality is our special-ty. Write your wants to M. G. MOSHER & SONS. Osseo, Mich.

Registered Berkshires, Gilts, and Sows bred for April May and June farrow. A yearling Boar and a few younger.Spring pigs. Chase Stock Farm, Marlette, Mich.

LARGE Berkshires. Ten years a breeder, Let u convince you that we have the kind you want. Circuitsfaction guar. W. H. Every, Manchester, Mich

at the State Fair in last 2 boar. Everyone will be a m buyer. Cat. and price list. NEWTON BARNHART, St. Johns, Mich.

Michigana Farm Durocs

DUROC JERSEYS. Spring pigs delivery, \$10.00 each. LAKE SIDE STOOK FRUIT FARM, Pinckney, Michigan.

ROYAL BRED DUROC GILTS oams sired by Michigan Cherry Col. Bred to Jacks herry Orion King, No. 189259. Son of the \$10,000 champ-m, Jacks Orion King 2nd, all high class stock, write or prices. The Jennings Farms, R I, Bailey, Mich.

DUROC JERSEYS Two sows of great breeding and choice individual weighing about 300 lbs, each due to farrow in June price \$5 each, first checks get them. RUSH BROS. OAKWOOD FARM, Romeo, Mich

DUROC JERSEYS Bred gilts all sold. Get in your orders early for March and April pigs. Either set or pairs not akin, F. J. DRODT, Monroe, Mich. R. I.

DUROC JERSEYS E. D. HEYDENBERK, Wayland, Mich

Duroc bred sows and gilts sired by Orion Cherry King Col. 2nd., bred to All Col. of Sangamo 2nd. First class lot, reasonable. W.C. Taylor, Milan, Mich.

Duroc Jersey fall and spring pigs for sale. We sell you only the best, ship C. O. D. subject to your approval. Register in buyers name and guarantee satisfaction W. E. BARTLEY, Alma, Michigan

DUROC PIGS for sale \$15.00 each. registered. Gassopolis, Mich.

CHESTERS, spring pigs in pairs or trios from strictly big type mature stock. A few gilts b red for May farrow. F. W. ALEXANDER, Vassar, Mich.



ay great herd in every community where seemed for marks esemed by these fine early developers—ready for marks esemed by these fine early developers—ready for marks conthe old. Owrite for my plan— More Money from I conthe old. Owrite for my plan— More Money from I conthe old. Owrite for my plan— More Money from I conthe old. B. BENSAMIN, B. F. D. 10. Portland, Michael C. BENSAMIN, B. F. D. 10.

O. I. C. and Chester White Swine trictly Big Type with quality. Spring pige of March dapril farrow. A choice lot of boars. Will only pare a few more gilts at present. Will ship C. O. D. drevord them free. Warlette, Mich. B. No. 1.

O. I. C's Am offering a few September pigs that combine size and quality.
C. J. THOMPSON. Rockford, Mich.

O. I. C's A few choice late fall and winter boars, also a fine two year old boar, WEBER BROS., R. No. 2. Royal Oak, Mich.

O. I. C's. Big type serviceable boars. Gilts G. P. ANDREWS, DANSVILLE, MICHIGAN

O.I.C. Gilts bred for March and April farrow, guaranteed with pigs. Fall pigs and a few service boars. Herd immuned by D. T. F. C. Burgess, R. 3, Mason, Mich.

O. I. C's Eight young boars and spring pigs for June shipment. CLOVER LEAF STOCK FARM, Monroe, Mich.

O. I. C.'s Booking orders for apring pigs, we register free and ship C. O. D.
A. J. BARKER & SON. Belment, Mich.

O. I. C's Champion yearling boar, Bred Gilts and March and April pigs. Vernon C. Fry, 808 Vinton Bldg., Detroit, Mich.

O L C's, 5 last fall boars and 15 last fall gifts bred for fall farrow. Weight 290 to 325 lbs. extra good stock. Also this springs pigs not akin. 15 mile west of depo-citizens phone 124. Otto B. Schulze, Nashville, Mich.

One 400 lb. sow and 7 pigs by side, price \$100.00. One 275 lb. gilt and 6 pigs by side, price \$85.00. Two choice boars. H. O. SWARTZ, Schoolcraft, Mich.

Big Type Poland Chinas

Our herd is representative of the best in Big Type. The \$40,000.00 "The Yankee", the \$50,000.00 "The Clansman, and the priceless "Glant Buster" are all represented. We aim to keep up-to-date blood inne and only quality stuff. Come over and see us PUBLIG SALE OCT 7th.

MILLER Meadow's L. T. P. C. boars all sold. Gilts Streed by General Jones and bred to caryoung boar Aleska, address CLYDE WEAVER, Correct, Mich.

Veterinary.

CONDUCTED BY DR. W. C. FAIR.

Cows Fail to Come in Heat.—I have seen in the veterinary department of our paper a treatment of one dram of ground nux vomica and one dram of ground capsicum given to bring on heat in cows. I first gave "Kow Kure" and it failed. I then went to the drug store and purchased one ounce of each and divided it into sixteen doses, but the druggist told me to make it into eight doses, but this treatment has also failed. I gave the medicine twice a day. W. C. B., Jackson, Mich.—In erder to obtain satisfactory results in these kind of cases the treatment should be kept up for several weeks, or until cow comes in heat. It should be understood that some cows are shy breeders, others are barren and never will come in heat; furthermore, it is no mistake in having such cows examined with a view of ascertaining the cause of them not coming in heat.

Cow Coughs.—I have a young heifer took dropped a calif March 10. Since

Cow Coughs.—I have a young heifer which dropped a calf March 10. Since that time she has had a cough. She has good feed, am fattening calf on her. She fails to lay on flesh. What can be done for her? C. W. DeB., Bedford, Mich.—Give her a teaspoon of ginger and a tablespoonful of powdered licorice in feed three times a day. Ruh her throat with camphorated oit twice a day.

Warts.—I have a two-year-old heifer

Warts.—I have a two-year-old heifer that is covered with warts, especially on neck and shoulders. G. W. R., Skondiv, Mich.—Apply either castor or olive oil once a day; give her two drams of Fowler's Solution at a dose twice a day, until the warts are gone. Warts with well defined neck, should always be cut or clipped off. If a more active remedy is needed write again.

Loss of Appetite.—I have a Durham buil two and a half years old that is not thriving. His coat is rough and he fails to eat enough food. He is offered several kinds of feed, but has little appetite. W. B., Oakley, Mich.—Give him one dram of fluid extract of nux vomica, two drams of fluid extract of einchona and half an ounce of Fowler's solution at a dose three times a day until he is well. This medicine can be given in his drinking water, or in one quart of water as a drench.

Scours.—My young cattle below a

Scours.—My young cattle below a year old have been troubled with the scours. Several of them have died and my neighbors complain of their young stock having this same ailment. At first my yearlings were sick, now the young calves are scouring. W. H. L. Bendon, Mich.—Scouring is a common result of indigestion, and at first may be nothing more than nature attempting to relieve the stomach and bowels of offensive and irritating contents. As the indigestion persists, however, the fermentations going on in the undigested masses become steadily more complex and active, and what was at first the mere result of irritation or suspended digestion comes to be a genuine contagious disease, in which the organized ferments propagate the affection from animal to animal and from herd to herd. Started in a cow stable it is liable to persist for years, or until the building has been thoroughly cleansed and disinfected. In the treatment of scours, give a dose of castor oil, then give salol or any of the bowel antiseptics, but I believe your herd and the neighbors require the services of a competent veterinarian, to oversee the cleaning and disinfecting, with a view of getting rid of the infection.

Infected Udder.—We have a cow that gives milk that has a whole lot of little specks in it, and we believe she has garget. G. H., Bangor, Mich.—Give her a teaspoonful of hyposulphite of soda in feed two or three times a day. She should he milked clean three times a day.

Ringworm.—Our calves are bothered with ringworm and none of the remedies I have applied have done any good. L. F. S., Comins, Mich.—Paint sore parts with fincture of iodine three times a week.

Chronic Garget—Vertigo.—Last fall my cow came fresh; since then one-quarter of bag is hard and caked. I also have a sow twelve menths old that occasionally staggers. M. H., Harrison, Mich.—Apply iodine ointment to udder daily. Give sow lifteen grains of bromide of potash twice a day.

WHEN you see a painter using Heath & Milligan Dependable Paint or a dealer selling it, you may be sure that they both stand for giving you a square deal.

For our dependable trade-mark stands for the highest paint quality that money, brains and facilities can make. It means "Cheapest in the End" for you — the very thing you want. You as an owner of property can, therefore, safely use our Trade Mark as a safe guide when you buy.

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There are over 50 distinct Heath & Milligan Products for you to use. One for each surface around the farm and home from the front gate to the back fence. They are all of the same high standard quality. Use them and see for yourself that they go farther, require less time to apply, look better, wear longer than paints which cost less in the can.

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Heath & Milligan Paints have been used throughout the United States since 1851. That's a long time. With the knowledge and experience gained during these years our new book "How to Paint" has been written. This book will save you time, money and worry—lots of each and it's free—though worth twenty-five cents easily. If you want a copy, return this coupon.

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Ask our dealer in your town for a copy of our FREE Book "How to Paint." He has a supply now. Or return this coupon to us and we will mail it.

R. F. D.....State.....

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THE FAMOUS O.I.C.SWINE

We have the undefeated Herd of the World.
Winning premier breeder and exhibitor at
every fair shown in 1919-1918-1917, includthe following state fairs---Ohio, Michigan, Indiana, Illinois, Missouri, Kentucky,
Tennessee, Oklahoma, New York, Alabama, Tri-state fair Memphis, and the Nationat O.I.C twice. Stock of all ages for sale. Registered free in the O.I.C. association.
Order now. We will ship any of our stock on approval allow you to keep
three days before you have to pay for it. You will be your own judge on your
own farm.

CRANDELL'S PRIZE HOGS,

Cass City, Mich.

Bred Sow Sale at Fairgrounds
August 5th. Carey U. Edmonds, Hastings, Mich

For Sale: Purebred O. I. C. pigs, eight weeks old, from the son of the noted sires. Caltaway Ed. and C. O. Schoolmaster. Their dam by Longfeltow. These pigs are well-grown and are good ones. For prices and particulars address C. S. MOTF. Flint, Mich.

B. T. P. C.

All sold out except some Fall Gilly. Thanking
the customers.

JOHN D. WILEY. Schoolcraft, Mich.

BOARS! Oh Boys!

Sons and grandsons of the Mighty Giant Buster. This boned useful kind. Priced for a quick sale. JNO. C. BUTLER. Bell Phone. Portland, Mich.

Big Bob Massodon pigs takes the cake, book your conder now. Fall boars and gifts sired by a grandson of Disher Giant, each or bred to Big Bob for Sept. 23 yearing sons. O. E. GARNANT, Eaton Hapids, Mich.

Big Type Poland Chinas sonable prices. Pigs of both sex, and bred sows and gilts.
G. A. BAUMGARDNER. B. Middleville, Mich

Dig Type P. C. Bred gilts, Fall yearlings, prize winpiness, out 1100 lb. sire and memmoth sows from Iowa's greatest herds. E.J. Mathewson, Burr Oak, Mich.

Big Type Polands all sold out. Watch this ad for further announcements. Breeding stock for sale in season. L. L. CHAMBERLAIN. Marcellus, Mich.

LEONARD'S B. T. P. C. bred sows all sold. Order booked for bo ar pigs at wenning time from N. ich. Champion Herd. E. R. Leonard, [R. 3, St. Leuis, Mich.

Champion Hest. E. S. Leonard, R. 5, 58, Leonard, T. am offering Large Type Poland China Sows, brew Write or call Clyde Fisher, St. Louis, Mich. R. R. 3.

Mammoth Ben's Chief No. 352167 heads our herd. Sows by Mammoth Ben, Upsome Lad. Joe Mastodon. Gertschle Jones, and Capt. Price. Pigs by Mammoth Ben's Chief. Mountain Jack and Orange Model. For sale full boars and eiths sized by a son of Bower's Mammoth Joe. A few herd sows priced to soll. Get in line for spring boars.

WM H. LIND. Citz. Phone. Alto Mich.

6 th ANNUAL P. C. Bred Sow Sate March II, 1920, For particulars write W. J. HAGELSHAW, Augusta, Mich.

LARGE TYPE P.C. SWINE. One yearling boar, fall pigs, a few more bred sows. R. W. Mills, Saline, Mich.

Poland China Brood Sows Bred for May and Maplewood Stock Farm, Allegan, Mich.

FOR SALE A few L. T. P. C. gilts being bred for A. A. Feldkamp, Manchester, Mich., R. F. D. 3

FOR SALE Begistered Big type Poland China glits bred for Sept. farrow, weighing 225 lbs. for \$60, spring pigs all said, guarantee satisfaction. DORUS HOVER. Akron, Mach.

HAMPSHIRES

Spring boar pigs, sired by Steuben's Perfection and Cherokee Jim, 1st prize Ind. State Fair. Other winners at other fairs. Tried sows bred. Satisfaction guaranteed. Will ship'C. O. D. Address.

STEUBEN'S HAMPSHIRE FARM
R. R 3. Angola, Incl.

Edgewood Hampshires
All bred gifts sold. Now booking orders for gifts best
for fall farrow, and pigs for pig club work only.
Depew Head, Edgewood Farm, Mayion, Ohio.

Hampshire bred gilts now ready to ship and spring and fall pigs from new blood fines.

JOHN W. SNYDER, R. 4, St. Johns, Mich.

SHEEP.

Idle Wild Stock Farms Shropshire yearing rame Make your selection early. Cliff Middleton, Proprietor, Clayton, Mich. R. 3.

Additional Stock Ada on Page 891

MENUT WENTER METERS ARE ARE MARKET AND BUT OF THE CORRECT OF THE PROPERTY OF T 12:20 西亚南西亚西

FIRST EDITION.

The market reports in this edition were revised and corrected Tuesday noon, June 1.

the loading of wheat from that country had been discontinued by government orders caused considerable buying on the Chicago market. The meager offerings were picked up at the beginning of Saturday's business. Later it was learned that the report was un-true and that exports are to be in-creased rather than diminished which caused a heavy unloading by early caused a heavy unloading by early buyers. At Detroit not much wheat is arriving by rail, although dealers are said to be bidding at country points, but another cargo is coming from Chicago which will supply the immediate needs. Present values on the local market Saturday were as follows:

No.	1	red								\$3.15
No.	1	mix	ced						3	3.13
No.	1	whi	te							3.13
No.	2	red								3.12
No.	3	red								3.09
YETOTEK			127550	SEE:	900	ar.				

CORN

Prices have fluctuated during the past week but the general situation remains about the same. The wide range in prices seems due to the attempts of the market to adjust itself to new conditions that are expected to come. Cash corn has been scarce and firm most of the week, but dealers are looking for a larger movement. On the other hand, an active demand is expected as soon as the supplies begin moving. Present quotations are as followers.

No. 3	\$2.00	
No. 3	yellow 2.05	
No. 4	yellow 2.00	
No. 5	yellow 1.96	
No. 6	yellow 1.93	

OATS

Saturday's market for oats showed no material change. A number of traders predict that there will be a rush to sell if Tuesday's receipts show up heavy. Quotations on the local market Saturday were as follows:

		white								
No.	1	mixed			٠					1.22
No.	4	white								1.21

RYE

Rye has been dull and inactive for several days, but advanced five cents Saturday, when Cash No. 2 rye was quoted at \$2.10 per bushel on the Detroit market.

SEEDS

There is not much activity in the local seed market. Present quotations are as follows: Prime red clover at \$26.50; alsike \$26.50; timothy \$5.60 a bushel.

FEEDS

There has been no material change in the feed situation during the past week. On the Detroit market the folweek. On the Detroit market the following quotations were held good for Saturday: Bran \$58@59; standard middlings \$59@60; fine middlings \$60 @62; coarse corn meal \$78@80; cracked corn \$80.50; chop \$72@73 per ton in 100-pound sacks.

HAY

Receipts of hay continue light and prices Saturday were unchanged. No. 1 timothy \$37.50@38; standard \$36.50 and 1 timothy \$37.50 and 1 timothy \$35.50; No. 2 timothy \$32.00 and 1 timothy \$35.50; No. 3 timothy \$32.00 and 1 timothy \$35.50; No. 3 timothy \$32.00 and 1 timothy \$35.50 and

ton in carlots.

At Pittsburgh considerable hay is arriving but the demand is equal to the receipts at the following prices: No 1 timothy \$44@45; standard \$43@44; No. 2 timothy \$42@43; No. 3 timothy \$40@41; No. 1 oat straw \$18.50@19; No. do oat straw \$18.50@19; No. 2 wheat straw \$18.000; No. 2 wheat straw \$17.50@18; No. 1 rye straw at \$18.50@19; No. 2 rye straw at \$18.50@19; No. 2 rye straw \$18.018.50; tops \$14.60; bears \$13.85@18.50; tops \$14.60; bears \$13.25 Mixed hogs \$14.50; tops \$14.50; tops \$14.50; tops \$14.50; tops \$14.60; bears \$13.25 Mixed hogs \$14.50; tops \$14.50; tops \$14.50; tops \$14.50; tops \$14.50; tops \$14.60; tops \$14.50; tops \$14.50;

BEANS

Beans are quoted steady but the demand on the local market is inactive. Choice pea beans for immediate shipment are quoted at \$7.85 per cwt. At New York choice pea beans are quoted at \$8@8.25 per cwt.

POTATOES

On the local market a little improvewheat

Reports from Argentina saying that

the local market a little improvement is noted in the demand. Receipts amount to almost nothing and the quality is not in keeping with the price. Old stock Michigan Round Whites in 150-pound sacks are quoted at \$13@13.25.

BUTTER

Butter receipts are increasing and prices are declining. Consumers are purchasing in only small quantities while production is increasing in most dairying regions. At Detroit No. 1 creamery butter is quoted at 48½@49c per pound.

CHEESE

Saturday's quotations on the local market were as follows: Michigan flats 29@29½c; New York flats, June make 22½c; brick 30@30½c; longholms 31½c; Michigan single daisies 31c; Wisconsin double daisies 30½c; Wisconsin twins 29c; limburger, October make 35@35½c; domestic block Swiss 39@40c; imported Swiss 85c Swiss 39@40c; imported Swiss 85c

The market is easy and prices are declining almost every day. Saturday's quotations on the local market were 42@42½c for No. 1 packed extras and 39½c for No. 1 fresh eggs.

POULTRY

The demand for poultry is very light and the feeling is weak. Broilers are in demand but there is no demand for chickens and hens. Saturday's quotachickens and hens. Saturday's quotations on the local market were as follows for live poultry: Broilers 70@75c per lb; spring chickens, best 31@32c; hens 37@38c; small hens 37@38c: roosters 22@23; geese 30@35c; ducks 40@45c; turkeys 44@45c.

WOOL

There has been a decline this week of ten cents per bushel in the paying price of wheat by milling companies. The price now is \$2.90 for No. 1 red and \$2.88 for No. 1 white. Subsidiary grains followed the decline in wheat and prices now are: Rye \$1.75 per bushel; oats 96c; corn \$2; buckwheat for former and \$1.80 for latter. The hide market is weaker and lower for both cattle and calf. Dealers cut the price from two to five cents a pound. Wool is off to 50c for fine and rejects and 40c for medium and unwashed. The market for red kidney beans is higher, dealers bidding \$13 per cvt. White beans are unchanged at \$6.75 per cwt. Potatoes are becoming scarce and some outside buying stations are closed. Dealers now pay \$4.04.50 per bushel.

NEW YORK PRODUCE MARKET.

Butter.—Butter prices have declined during the week, but very gradually, so on the whole the market has been very irregular. With the flush season approaching buyers feel that the price of butter must fall considerably, hence the price recovered one cent. At the close on Friday, quotations were: Extras 59½ 060c; higher cent. At the close on Friday, quotations were: Extras 59½ 066c; higher cent. At the close on Friday, quotations were: Extras 59½ 065c; seconds 50 055c. Cheese.—The cheese market is quiet with indications that prices will decline soon. That will be due to increase in make and because of better-ed railroad conditions. There is little export trade at present and domestic buying is curtalled because of the probability that prices will go lower soon. Established quotations are: Common to good 26 027c; average run 27¼ 0 27% c; specials 28½ 028% c.

Eggs.—Receipts of eggs are normal for this season of the year. Considerable during the week, but very gradually, week and until Tuesday of this there were a constant stump in the egg market. However, the market now seems to be somewhat stabilized and is fairly firm. Quotations are: Firsts, 410 a

Dealers in the Boston market, and during the week, but very gradually, growers of wool in the west are in the On the whole the market has been midst of a critical period. For the very irregular. With the flush season present the primary and secondary approaching buyers feel that the price midst of a critical period. For the very irregular. With the flush season present the primary and secondary approaching buyers feel that the price markets are drifting. Dealers do not of butter must fall considerably, hence know what to offer for the new clips, they keep their purchases down to the or they suggest prices which growers minimum. That, very naturally, keeps will not consider for a moment, while the market in a constant state of ner-

business is nil because the manufacturing situation is uncertain. Western wool is moving slowly. Cars are hard to get at shipping points. Not for weeks will the movement of wool assume sizable proportions and it is estimated that the weight of the clip will not be known until two or three months later than usual. New Missouri wool, mostly quarter-blood, is reported to have been offered in St. Louis at prices which would mean a cost of 45\omega50c for lots laid down here. Ohio growers are still firm, quoting fleeces on the following basis: Fine unwashed clothing 67\omega68c; half-blood combing 75c; three-eighths-blood combing 63c; quarter-blood combing 63c; quarter-blood combing 65c for three-eighths-blood combing 65c; three-eighths-blood combing 65c; quarter-blood combing 65c for the holiday of Monday and in consecuted to avoid carrying any butter over into a time of low prices, hence the supply of butter in the market has little influence on the quotation at present. The fact is there is a shortage of butter just now. That is due in large part to the poor transportation facilities that are furnished by railroads and also to the lateness of the season. Ordinarily with no more butter in stores than at present. The fact is there is a shortage of butter just now. That is due in large part to the poor transportation facilities that are furnished by railroads and also to the lateness of the season. Ordinarily with no more butter in stores than at present. The fact is there is a shortage of butter just now. That is due in large part to the poor transportation facilities that are furnished by railroads and also to the lateness of the season. Ordinarily with no more butter in stores than at present. The fact is there is a shortage of butter just now. That is due in large part to the poor transportation facilities that are furnished by railroads and also to the lateness of the season. Ordinarily with no more butter in stores than at present. The fact is there is a shortage of butter just now. That is due in large part t

firm. Quotations are: Firsts, 41@ 42½c; extra firsts 43½@44½c; and extras 47@48c.

Poultry.-Receipts of live poultry rountry.—Receipts of five poultry have been heavy during the week but demand has been strong. The market has changed very little during the week, but has been very steady. Quotations are: Fowls 40@41c; broilers 75@85c; old roosters 25c; turkeys at 30c; ducks 23@25c; geese 20@22c.

Live Stock Market Service

DETROIT

ri Si	Market strong and 25@ than last week's close.	50c	hi	gher
	Best heavy steers\$	11 50	@1	1 7!
ġ	Best handy wt bu steers	11.50	01	2.2
	Mixed steers and heifers	10.00	(a)	1.2
	Handy light butchers	9.00	@	0.00
	Light butchers	8.00	(0)	8.71
	Best cows	8.75	@	9.00
	Butcher cows	7.50	@	8.25
	Cutters			6.00
ŝ	Canners	5.00	(a)	5.75
	Best heavy bulls			8.50
	Bologna bulls	8.00	@	8.25
ķ	Stock bulls			
ğ	Feeders	9.00	1000	
	Stockers	7.50		
	Milkers and springers\$	85	@	12
	Veal Calves.			

Market strong. \$17.00@18.00 s 10.00@14.00

Estimated receipts today are 36,000; holdover 15,123. Market is mostly 25c lower, than yesterday's average; heavies very dull. Bulk of sales \$13.85\tilde{m}\$ 14.50; tops \$14.60; heavy 250 lbs up, medium, good and choice at \$13.60\tilde{m}\$ 10.50; ewes, cull and common \$2.50\tilde{m}\$ 10.50;

sows 250 lbs up smooth \$12.50@13.35; packing sows 200 lbs up rough \$12@12.50; pigs 130 lbs down, medium, good and choice \$11.50@13.75.

Cattle.

Estimated receipts today are 7,000. Market steady to 40c higher; calves 50c higher. Beef steers, medium and heivy weight 1100 lbs up, choice and prime \$13.15@14.25; do medium and good \$11.90@13.50; do common \$10.75@11.90; light weight 1100 lbs down, good and choice \$13@14.25; do common and medium \$10.50@13; butcher cattle heifers common medium good cattle, heifers, common, medium, good and choice \$7.75@13; cows, common, medium, good and choice \$7.60@11.25; bulls, bologna and beef at \$7.60@11; canners and cutters, cows and heifers \$4.75@7.50; do common steers \$6.25@ stocker steers, common, medium, good and choice \$7.75@01.15; stocker steers, common, medium, good and choice at \$9.01.85; stocker steers, common, medium, good and choice at \$9.01.85; stocker steers, common, medium, good and choice \$7.75.01.15; stocker cows.

\$7.50@10.50.

Sheep and Lambs.

Estimated receipts today are 13,000.
Market slow, mostly steady on best grades; others weak. Lambs 84 lbs down, medium, good choice and prime \$13.50@17.25; do culls and common \$10.013.50; feeder lambs, medium, good and choice at at \$15.017.50; spring lambs, medium, good, choice and prime \$11.75.014.75; ewes, medium, good and choice \$7.000, 10.50; ewes, cull and common \$2.50.000, 6.50; yearling wethers, medium, good and choice \$11.000.000, and choice \$11.000.000, and choice \$10.50; ewes, cull and common \$2.50.000, and choice \$11.000.0000, and choice \$10.50; wearling wethers, medium, good and choice \$10.50; w

CENTRAL MICHIGAN POLAND-CHINA BREEDERS BUSY.

The breeders of Big Type Poland-China hogs, of central Michigan, have long felt the need of a closer fraternal spirit among ourselves, as breeders, to promote public sales and for the best interest of the breed in our state, and particularly for our section of the state

At a meeting on May 15, 1920, E. R. Leonard, St. Louis, was elected president, and C. A. Boone, Blanchard, secretary-treasurer of The Central Michigan Big Type Poland-China Breeders' Association Association.

Association.

A sale circuit was formed for October 26 to October 30, with The Boone-Hill Company, Blanchard, E. R. Leonard, St. Louis, Charles Wetzel Sons, Ithaca, Brewbaker & Sons, Elsie, and Wesley Hile, Ionia. This will be a five-day circuit, the first sale circuit of the Big Types ever held in Michigan. Leading blood is well represented in the several herds, and this will afford an opportunity for the public to

M. A. C. News Letter

B ECAUSE concentrated feeds have recently undergone considerable increases in price, the use of forage crops has become doubly important in keeping down the cost of pork production, it is held by Prof. W. E. J. Edwards, of the Animal Husbandry Department at M. A. C.

Tests at the Experiment Station at East Lansing and on a number of farms elsewhere have shown that from one-third to one-half less grain is required to produce a given amount of pork on pasture than in a pen or dry lot.

Good pasture for hogs is provided by either alfalfa or the clovers, but since there are many farms where these crops can be utilized, it is necessary to provide some other kind of forage. During the early summer, June grass pasture is excellent, but it cannot be depended upon during hot weather. To fill the need during this period rape may be used, according to Professor Edwards. It not only grows rapidly on any type of soil except very light sand, but it remains fresh throughout the summer.

"Rape gives best results," says Prof. Edwards, "if sown from early spring as soon as the soil warms up to June 15, or even later, depending upon the weather conditions. Dwarf Essex is the best variety for our use. The seed is very fine and requires a good fine seedbed containing considerable moisture in order that it germinate evenly and strong. Lots where hogs have been running all winter can be used to good advantage in growing rape. It is usually sown broadcast, using about five pounds of seed per acre, but as the crop requires much moisture it may be advisable on light sandy soils to sow in drills about twenty-eight inches apart and cultivate between the rows, using from three to three and one-half pounds of seed per acre. When the rape is about eight or ten inches high, the pigs should be turned in. It should not be pastured very closely and if two lots are sown so that the hogs may be rotated from one side to the other, new shoots develop and keep the crop fresh and green through the whole season."

With the high price of labor the present development of production of high standard seed means much to Michigan farmers. It is pointed out by A. L. Bibbins, secretary of the Michigan Crop Improvement Association, that better seed at reasonable prices means higher production without extra expense of labor or capital and therefore a benefit to agriculture of the whole state.

More than ever before it is necessary for people on the farms and people in the cities to understand each other and the problems which each class face, in the opinion of Prof. J. F. Cox, of the Farm Crops Department at M. A. C.

"The interchange of speakers and meetings," says Professor Cox, "which has begun between Chambers of Commerce, Rotary Clubs, and other business mens' organizations, and nearby Farm Bureaus, Granges, Gleaners' organizations and Farmers' Clubs, should have a great influence in bringing about a widespread understanding of the relationship existing between city and country."

Professor Cox holds that, despite charges to the contrary, recent steps for closer cooperation of farmers, such as the formation of the Michigan Farm Bureau, have helped both to retain farmers and their helpers on the land and to lower the cost of food products to the consumer.

Henshaw.





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Everywhere to ride and exhibit the new Ranger 'Moterhik the completely sequipped with electric light and horn, earrier, steam, tool tank, constor-brake, mud guards and antisskid tires. Choise of 44 other styless, solume and shows to the styless to the styl

Buy Your June Chicks near home. horns \$17.00 per 100; 50, \$9.00; 25, \$4.50. Delivered parcels post paid. Sent for price list of other varieties, washtenaw Hatchery, Ann Arbor, Mich.



For keeping Flies Gnats and many other insects off animals. Used and endersed since 1885 by leading dairymen. Cows give 25% to 35% more milk during fly season if sprayed with Shoo-Fly. \$1.50 worth \$20

111 milk and deshalone on each cow in a single seasson. Excellent for galls. Allays tiching. Aids in healing cuts and sores. Excellent for lice and mites in poultry houses. Send \$1.50 for enough Shoo-Fly to protect 10 cows 2 seems, also our 3-tube gravity aprayer. Money back if

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HAY Ship to The Old Reliable House Daniel McCaff ey's Sons, 623-625 Wabash Bidg., Pittaburg, Pa.

SHEEP

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I cannot sell you any more ewes until next fall. To some grown up, I can offer 10 very good young Shrop-shire ewes that will lamb in April for \$800.00. Their lambs contracted to me should not more than purchase price next fall. Also 10 mighty nice ewe lambs for \$350.00. Come and see them.

S. L. WING, KOPE-KON FARN'S, Coldwater, Mich.

250 Reg. Shropshires offered past season all sold needed. Registered Shropshire ewes and rams of same high quality. C. LEMEN. Dexter, Mich

Want a Sheep? Let American Hampshire Sheep Association send you dandy booklet with list of breeders. Write COMFORT A. TYLEE, 22 Woodland Ave. Detroit, Mich.

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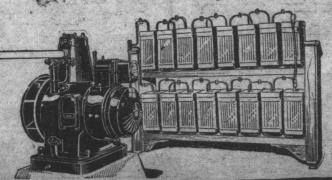
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