The Only Weekly Agricultural, Horticultural, and Live Stock Journal in the State

VOL. CLIII. No. 16

DETROIT, MICH., SATURDAY, OCTOBER 18, 1919

# The Task of the Rural Church

By W. W. Diehl

HE church is deeply concerned in the spiritual welfare of the people; it also knows if this coneconomic and industrial evils.

districts and not in a few of the more meant by democracy. recently settled places, many churches chosen sites? . Frequently. Too many as much money to educate a city child church. In a true democracy, we can denominations in a given field? Very

But there is failure in something more fundamental than local mistakes and cross purposes. Rural life is breaking down through conditions for which the church is in part responsible. Empty churches and rural decay have brought the rural church problem suddenly into great prominence. Indeed, many church leaders believe the rural church problem is the most important problem confronting the American people.

We have a rural problem in America. At the peace conference, labor was represented, capital was represented, but the farmer was not. All the world knows there is a labor problem; very few seem to know there is a rural problem. We shall never solve the labor problem until we solve the

believe a new viewpoint is the first standing preacher. thing to be secured. The whole nation program looking to this end is now on. material equipment and just as able autos. The task of the rural church is defined as "Kingdom building." The rural church will have accomplished her mission when Kingdom conditions are established completely in all phases of rural life and practice. When this is done we shall have a civilization in the country as fine in every respect as civilization in the city. All the basic satisfactions and refinements of life will find full and free opportunity for expression in the country. No rural minded person will then move from the farm to town to find better living conditions.

We must have a more practical conception of democracy, and then have the moral courage to live up to the conception. A democracy pledges a free and equal chance to all living in America. If men in a given group have not an equal chance with people

cern is vital it will find expression in constituting another group, then it be-teachers and preachers to build the farm in proportion to the number liv-

the solution and correction of present comes the duty of the government to Kingdom in the country as it does to ing in the city is so small that food remove the bar preventing the equal build the Kingdom in the city. In the production in sufficient quantity to In certain parts of the older country chance. That is what our forefathers Detroit Area steps are being taken to meet the nation's demand is a serious bring about this needed change.

stand empty and forsaken. Poorly spending about two and a half times see the economic import of the rural break-down in rural life.

D R. W. W. DIEHL aided in the promotion of America's first Farm Bureau work in De Kalb County, Illinois, where the Farm Bureau idea was established two years before the Smith-Lever bill became law, and where last winter ninety-seven per cent of the farmers became members of the Illinois State Agricultural Association on a \$10.00 membership basis. Dr. Diehl occupied a rural pastorate in the southern part of De Kalb county. The community betterment club work undertaken by him paved the way not only for more efficient church work, but also for better farming, since the members of these clubs were naturally better prepared than the people in the unorganized rural communities to take up and to execute the plans of the county agent. Dr. Diehl is now superintendent of the rural churches of the Detroit Area of the Methodist Episcopal Church. In that capacity he has unusual opportunity to know the Michigan rural field and to see the problems ahead of our country churches.

problem, we shall never solve the rural and the inexperienced teacher are good group. For we are members, one of parts. There is a conference lasting problem without the aid of the rural enough for the country; the one-room another. When one group suffers all one week with lectures by prominent church structure and the untrained other groups suffer with it. Farmers educators, economists, and rural work-In the Detroit Area the leaders have preacher are good enough for the far- are the only great class that have the ers. For these lectures the ablest spea clearly defined objective. They do mer. But city people must have the price fixed when they sell and when cialists in the land are secured. In not believe in tinkering with the old modern and well equipped school they buy. They have not in the past, addition to this course, there are givrural church machinery, nor in speed- house, the successful teacher, the com- and are not now having a fair eco- en courses in homiletics, exegesis, soing up the old church program. They manding church structure and the out-nomic chance. As a result, many am- ciology, economics and agricultural bitious young men and women are leav- science. A fine corps of instructors

must get a clear vision of the rural not give the farmer and his family an Men will not make butter on the farm time these two courses are given, a



Helping the Boy in His Daily Tasks Opens the Way for the Church to Aid in the More Important Work of Character Building.

This exodus from the country to the city has gone on so rapidly that now the number of people living on the problem. The present high cost of liv-In the face of this fact, we are And we must get all the people to ing is very largely due to a partial

We shall never settle permanently the high cost of living until we build a new rural civilization. It can not be stated too frequently, nor with too great emphasis, that we cannot have a permanent civilization in America without cultured man and women on the farm; we can not keep cultured men and women on the farm without satisfactory social, recreational, educational, economic and religious conditions for the farmer and his family.

The rural church must take upon herself the task of building such a civilization or fail to accomplish her mission. In attempting this task, the great difficulty encountered is lack of leadership. The country has produced the leadership. The city has absorbed it.

In the Detroit Area needed leadership is being trained in different ways. Important among them is the rural life conference held each year in July, food problem, we shall never solve the as we are spending to educate a counnot selfishly put the welfare of one at the Michigan Agricultural College. food problem until we solve the rural try child. The little red school house group above the welfare of another The work here is divided into three This is not democracy. This does ing the farm and going to the city, is secured for this work, At the same problem, its urgency, and the relation-equal chance with the city man and at thirty cents an hour, when they can fered for preachers' wives. The Mich-ship of the church thereto. A definite his family. It requires just as fine get seventy-five cents per hour making igan Agricultural College is outstanding in the fine opportunity offered to rural workers through these conferences. Broad, deep and wide foundations are here laid for the best type of rural life.

Another fine feature of the work done in the Detroit Area is found in the formation of Rural Community Betterment Clubs. These clubs are organized expressly for the purpose of improving community conditions. Perjoin these clubs promise one or more of the following things each

- 1. Something to improve the soil.
- 2. Something to improve the live stock kept.
- 3. Something to improve the seed used.
- 4. Something to improve the farm buildings and the landscape about the (Continued on page 494). house.

The Michigan Farmer
Published Weekly Established 1843 Copyright 1919 The Lawrence Publishing Co. **Editors and Proprietors** 45 Congress St. West, Detr TELEPHONE MAIN 4525. NEW YORK OFFICE—381 Fourth Ave. CHICAGO OFFICE—111 W. Washington Street, CLEVELAND OFFICE—101 I-1015 Oregon Ave., N.E. PHILADELPHIA OFFICE—261-263 South Third St. 

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TERMS OF SUBSCRIPTION: 

RATES OF ADVERTISING line agate type measurement, or \$7.00 per ate lines per inch per insertion. No adv't less than \$1.50 each insertion. No objec-vertisments inserted at any time

Member Standard Farm Papers Association and Audit Bureau of Circulation.

Entered as Second Class Matter at the Post Office at Detroit, Michigan, Under the Act of March 3, 1879 NUMBER SIXTEEN

DETROIT, OCTOBER 18, 1919

### CURRENT COMMENT

Farmers' Business Relations

HE fact that the business of farming has an intimate relationship with all other kinds of business is fundamental,

and a general appreciation and understanding of this fact is essential to the wise solution of our reconstruction problems. The farmer's relation to all people in other lines of business is primary since all others depend upon him to produce the food which they must have. But the relationship of the farmer's business to the business in which others are engaged, is just as important, since almost every other business depends very largely upon the farmer for raw material or for a market for finished products. On the other hand, the farmer depends upon the people engaged in other lines of work for his market. It is then apparent that permanent prosperity for any kind or class of business, and the people engaged in it, either as principals or as workers, must be general, rather than sectional or sporadic, and equitable, rather than unequal or unjust.

If this premise is accepted, as an economic principle by the honest element in all business enterprises, the safety and future prosperity of our country and all its legitimate business enterprises is assured. That it is so acceeted by business men in many

recognized by the substantial, think has injured the just cause of organized ing farmers of Michigan who are active labor, until the public has become apin the development of the Michigan prehensive of a tendency in this direction.

Wednesday October 8. constructive program which they have serious nature, of which extreme exactions of a adopted under the three general divamples are to be found in European isions: educational, marketing and legislative—all aiming at more economic ant of these fendencies, and the first preme council of the ellies rote of the ellies r adopted under the three general divamples are to be found in European road rates prior to stations: educational, marketing and leg-countries. Americanism is not toler ratifies the peace treaty.—The suislative—all aiming at more economic ant of these tendencies, and the just preme council of the allies vote to islative—all aiming at more economic ant of these tendencies, and the just preme council of the allies vote to results and a square deal for farmers cause of the American workingman is ence in Washington adopts plans for ence in Washington adopts plans for weeding out visionary cure-all schemes all along the line. And in addition to certain to suffer from the reaction of and for expediting its work.—President securing these results for agriculture, direct ratio to the manifestation of and for expediting its work.—President this organization will accomplish a ser-radicalism in the ranks of organized Wilson's condition is somewhat improved.—Wheat exports show a disproved.—Wheat exports show a disproved show a dispro vice for the nation through its con- labor. demnation of Bolshevism, Sovietism, I. W. W.'ism and all similar propagan- felt the effect of present industrial conda, which is a menace to this country ditions more keenly than any other as to the rest of the world at this class of workers. To this fact may time.

It is, indeed, a wholesome sign for more efficient business organization of of Rolchak.—The list of German on the future that honest business men farmers than has ever before been attrial by the allies is completed.—Field in other lines are in harmony with tempted. Fortunately the new type of Marshal Foch will draft a new ultimater of the complete of the complete

The Steel Strike Situation

production is most essential to the wel- tries. fare of the country.

to its gneral work.

There is little question, however, society at large. with regard to the verdict of public opinion regarding this strike, and numerous other strikes which are in progress in various sections of the country at the present time. Public sentiment is strongly opposed to the use of the strike method in settling industrial controversy under present condibor with which to secure the fall crops. ers and operators.

Radicalism and its Reactions

for legitimate purpos- tatoes. es it is a good thing.

other states, as noted in a news item often breeds radicalism of a dangerous cured in season on most Michigan mans and the other is from the northother states, as noted in a news item often breeds radicalism of a dangerous cure. In season on most Michigan west government of Russia.—Plans to appearing in another column of this character, which is not only inimical farms, with the help of the women and distribute the surplus supply of sugar terms, which latter endorsoment result, to the interests of the general number of the farm household. This issue, which latter endorsement result to the interests of the general public, children of the farm household. This held by the army are cancelled.—Bered from the declarations formulated but reacts to the detriment of the order is a situation which must be remedied in gets United States milk for her by representatives of several state ganized class which fosters it. Labor at the earliest possible date in order Wilson's condition is reported as the production of the surplus supply of sugar the declarations formulated but reacts to the detriment of the order is a situation which must be remedied in gets United States milk for her at the earliest possible date in order which were published in farm bureaus which were published in organizations have been largely instruthat production may be maintained at the last issue mental in improving conditions for a point to meet the needs of the That the same economic principle is workingmen, but the radical element country. recognized by the substantial, think has injured the just cause of organized

business organization among farmers farmers' organization in our own and turn to Germany in view of the recent along these constructive lines and this other states has been promoted and military activities in the Baltic prov-fact should be received as a matter directed in a most conservative and inces.—Forty-seven military aviators fact should be received as a matter directed in a most conservative and start on a transcontinental trip by for congratulation rather than suspi-intelligent manner. So long as such air from coast to coast.—The Unitcion by farmers who have not yet an organization stands for a square ed States and Japan are negotiatidentified themselves with the organi- deal for the industry and nothing more, ing to overcome the obstacles in conzation. This fact augurs well for the it will be a potent force for good to its nection with military operations in Siberia.—Three persons are killed in a wise settlement of our critical reconconstituency and an asset to the gentornado at Hoisington, Kansas. struction problems, without in the eral public. The hope of the future for least distracting from the service this type of organization is that the which this organization will be able to most substantial class of business render agriculture.

THE program presented to the industrial conference by the public farmers are identifying themselves with and by labor are alike in all fundation. Its only future danger is the developmental premises.—Federal troops in Gary are fired upon by strikers.—Sentence of the fundation of THE strike of steel opment of radicalism and radical leadate committee on labor arrives in HE strike of steel opment of radicalism and radical lead-workers has now ers which would bring the inevitable Pittsburgh.—Great Britain

knowledge is still as the result of either selfishness or very limited with re. ignorance. It is not content with a troubles are settled.—The fliers in the gard to the strike situation. While square deal, but seeks to promote class bulletins from both sides claim con- interest without regard to the rights under various degrees of success. very limited with re. ignorance. It is not content with a stant gain, the public only knows that or interests of society at large or its Shopmen of the Southern Pacific railwhile some steel is still being made, other members. Industrial revolution thousands of men are idle, thus great- is its final and extreme manifestation, ly shortening production where it is as exemplified in Russia and seriously not entirely stopped at a time when threatened in other European coun-

Farmers as a class are not inclined In the meantime attempts by the to radicalism, because they are better In the meantime attempts by the senate committee to arrive at the meritary informed and have more permanent inmany.—Canada will acquire the Grand its of the controversy and outline some terests at stake than other workers. Trunk Nailway properties which will be merged with the Canadian National be merged with the Canadian National equitable basis of settlement have not But apart from this influence of condeveloped visible results, and this dition and environment we are all steel strike situation bids fair to prove pretty much alike, hence the need of lion Germans and Austrians are waitthe rock upon which the industrial introspection upon the assumption of ing the time when they can emmigrate conference now in session at Wash, the responsibilities which will go with to America and South American counconference now in session at Wash, the responsibilities which will go with tries.—Representatives of the Michigan ington may break, due to the seeming increased power throuh more efficient inability of the three groups to reach organization, for upon the wise direction attend the hearing before the ways and inability of the three groups to reach organization, for upon the wise direcan agreement relating to the taking of tion of increased power depends the means committee relative to increassteps for the settlement of this strike future benefit to the class exercising ing tariff on bean imports. by the conference before proceeding it in a fairly constant ratio to the effect of its actions on the well-being of

> Securing the Fall Crops

tions, and strongly favors the formu- This favorable weather has also added lation of some plan whereby industrial materially to the harvest of these disputes may be adjusted by arbitracrops. Heavy frosts have been two or tion and industrial peace maintained. three weeks later than usual in most Letts that negotiations be entered into looking toward injury against op such a general plan it will have ac- added very materially to the late po- German troops in Baltic ment of the steel strike would accom- corn and beans and enabling the se- ties are cured, schools having been suspended growth of industrial ing of this crop by making the school Washington. progress. In itself and children available to help pick the po-

of the aims and purposes of the new So long as organized class efforts are such measures must be reserted to in is started in Great Britain.—Allied

It is, indeed, a wholesome sign for more efficient business organization of of Kolchak.—The list of German offi-

been in progress some reaction.

her first shipment of goods from Gerthree weeks. Public Radicalism may be properly defined many since war was declared.—Every magazine published in New York City has suspended publication till labor

Saturday, October 11.

A RMENIA is asking for financial aid from America.—Traffic is suspended on Hudson River ferries when the crews strike.—Germans under leader-ship of Von der Goltz join with Russians in attack of Lettish troops while entente allies move to blockade lines, making the largest publicly own

Sunday, October 12.

THE allied governments order a sea blockade of German Baltic ports and the German government recalls all THE very favorable fall for the accomplishment of farm work has in no small measure compensated for the scarcity of lates to extend the scarcity of lates and the German government recalls all craft from these waters.—British vessels land 50,000 Lettish troops at Libau while fighting continues near Riga.—Montenegrian forces inflict heavy losses on invading Serbs.—France work has in no small signs peace terms with Germany.—Cavalry is called to quell riots at Brest, France.—Efforts are being made to extense very lower than the continue waters.—British vessels all craft from these waters.—British vessels land 50,000 Lettish troops at Libau while fighting continues near Riga.—Montenegrian forces inflict heavy losses on invading Serbs.—France for the searcity of la-

Monday, October 13.

If the industrial conference can develsections of the state, which fact has looking toward joint action against the bolshevists.—Berlin asserts that provinces are complished more than the mere settle- tato crop, in addition to ripening the returning home, while British authoriment of the steel strike would accom- corn and beans and enabling the se- ties are "genuinely alarmed" over the plish for the country, great as that accomplishment would be.

corn and beans and enabling the settles are genuinely atarmed over the genuinely atarmed over LASS organiza for a period of two weeks in many said to be preparing to join the Mag-C LASS organization as to facilitate the secure yar army marching against Budapest.

Tuesday, October 14. atoes.

It is a deplorable condition when A NATION WIDE campaign for the league of nations Farm Bureau movement, by representiered by honest, intelligent leader-order to secure the crops but it is the defense of Riga.—Two armies will race for an attack on Petrograd now stituency without doing any injustice ties under present conditions. It now held by the bolshevists; one of these state, as well as by business men of to the public at large. But power too appears that the fall crops will be searned to make the fall crops will be searned to the public at large. But power too appears that the fall crops will be searned to the fall crops will be searned to

> MICHIGAN MILK PRODUCERS MEET.

tion of officers, the following addresses will make up an interesting program: "The Relation of the Government to Organized Dairy Industry," by Hon. Milo D. Campbell, President of the National Mile Declaration President tional Milk Producers' Federation. Pro-fessor Erf, of Columbus University, labor.

Farmers, as a class, have perhaps felt the effect of present industrial conditions more keenly than any other class of workers. To this fact may be attributed the progress toward a bolsheviki forces, is again in the hands

proved.—Wheat exports show a distinct increase in volume.

Thursday, October 9.

NATIONAL prohibition is adopted by Norway with a very heavy majority.—Tobolsk recently taken by the bolsheviki forces, is again in the hands

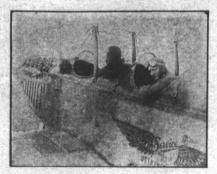
# The Only Grange Fair in Michigan

F there isn't John Bennett across the aisle!" whispered Mrs. Turner to her husband as they were riding on a train the other day.

"That can't be John," replied her husband, as he took a brief look at the individual pointed out. "He is smooth shaven, and John always wore a little mustache and funny-looking burnsides."

"Well, now, I tell you it's Johnny Bennett, sure's you live."

"I don't believe it," retorted hubby.
"I do," replied Mrs. Turner, as she got out her powder and proceeded to



Many Farmers Enjoyed their First Aeroplane Ride.

do a few chores about her person. "I used to go with John, you know, and did until he left his father's farm near Centerville to go to Detroit to clerk in a big department store."

Just then John Bennett noticed a woman across the way glancing in his direction and quickly recognized her. In less than a minute both Bennett and Turner and their wives were seated together and visiting and talking about old times.

"Where are you going, John?" inquired Harry Turner.

"Oh, we're going back to the farm and old folks for a visit and also to attend the Centerville Grange Fair."

"Same with us," said Mrs. Turner. "Mr. Turner has always lived in Rochester, New York, and is a manufacturer there. Father wrote us to come home for a visit during the fair; and he said it certainly would be worth the trip."

"Well," added John, "dad wrote that the grangers of St. Joseph county had bought the old fair grounds and race track three or four years ago, and got a thousand dollars. And dad says they the old farm looks from on high. I utes, slow time. always told him the farm was too big he'll go up and take a look at it and fair visitors, and especially the young neers, class "B." come down and tell me how small it boys and some of the girls. Next year is, see if he don't."

Fair that caused the writer to go di- boys' and girls' clubs of the county. had also received a ninety-six-page, lated on having a high-grade county um list that read on the front page, un- hustler, has very good judgment, tact, state fairs. The midway was one of when they were kids on the farm a

By J. H. Brown

manent Prosperity for St. Joseph has done fine work for the farmers, sion work. Two rooms were planned

day we were among hundreds of oth- ture of the Three Rivers garden and confusing one. They were exactly the ers wending our way through the main handicraft club exhibits. This exhibit same size and the furnishings cost entrance.

and but three blocks from the county ly to boys' and girls' exhibits. court house. There are forty acres in In the main hall a large portion of others will be needed next year.

member of the board of directors. E. ordinate granges to make a good dis-E. Salisbury, of Parkville, was the first play. For the largest and best display president. He is standing back of the of fancy work the first premium was Jersey bull in the group picture. This \$20 and the second \$15. The third year E. H. Kirklin, of Mendon, is pres- was \$10. ident; J. H. Langton, vice-president, For the largest and best display of Centerville; C. T. Bolender, secretary, garden products by any boys' and girls' Centerville, and Claude Felker, treas- club in the county, the first prize was urer, Parkville.

The first man we got acquainted fifth, \$2. with was W. T. Langley, a prominent One of the biggest attractions at the

That settled it, and so on a certain farm boys and girls. We took a pic- a quiet restful room, and a crowded The grounds are right in the village Fair. One division was devoted entire-

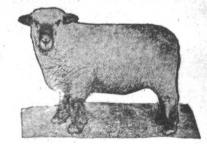
the fair grounds. The soil is sandy the east half was devoted to individual panying picture was so much more deloam and the surface level. Several exhibits by the Sturgis and Parkville sirable than the other. The context of buildings and a good-sized stand are Granges. There was plenty of variety, the signs gave a fairly good idea of in fairly good condition. A new cattle quality and attractiveness in both exshed was recently constructed and hibits. For the largest and best display one of these granges was to re-The thirteen subordinate granges of ceive a first premium of \$60 in cash. the county make up the Grange Fair The second premium was \$50, so there Association, each grange electing one was considerable inducement for sub-

\$10; second, \$8; third, \$6; fourth, \$4;

farmer whose farm is southwest of the Grange Fair was the gas tractor plowvillage. His grandfather, Thomas W., ing and brake tests. The plowing was was the first settler at Centerville, ar- in an adjoining field on Wednesday, riving with his ox cart in 1832. Mr. and the brake tests were conducted in Langley was superintendent of the cat- the field inside the fair race track on

And another interesting department included booths arranged by Miss Hel-Slogan, Better Live Stock Means Per- of each day, and even nights, and he en Arms, specialist of M. A. C. extentheir wives, and particularly for the to emphasize the difference between also took prizes at the Michigan State practically the same. The signs displayed at one side of the booths were carefully worded to bring out the rea-

any fair groud.

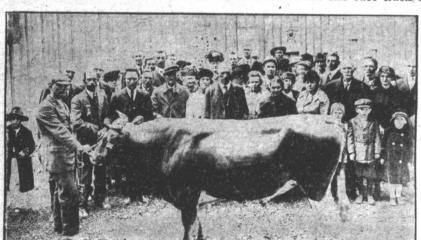


Feature Found at the Big Fairs Was There

the sort of furnishings in each room. These displays and demonstrations of Miss Arms at the Grange Fair interested fair visitors of both sexes and from city and country. It was representative of the work done with women, through the "Rural Home Demonstration Agent."

And last, but not least, the St. Joseph County Grange Fair is the only one in the whole state that is "Grange" from beginning to end, above and below, and clear through. Above the grounds soared a big aeroplane during the two days we were present. It was a bigger feature than any horse race or three-card monte or shell game we ever heard tell of, which is the only way ke know anything about anything connected with such things, here or elsewhere.

That big aeroplane had taken up just thirty-eight farmers and other kinds of folks when we took the accompanying picture. Not a single accident occurred. The ground was stubble and rather soft and sandy, but the big plane scooted over the ground and "lit out" and up with the biggest such a good start last year, even while the department, and insisted that the Thursday. We will not report the plow- and fattest farmer that could crowd he was not pale, nor demonstrating the ville. The rules governing the tests whir. He had just signed a paper with mence suit for damages. He had also The brake tests were very interest- arranged with his better half regardthere will be even more exhibits en- ing and more or less exciting to the ing the digging of the late potatoes And it was this sort of a story tered by the young folks, as the fair farmers who closed around the Prony next week, providing he didn't return about the St. Joseph County Grange association is much interested in the brake as near as allowed. The picture in time. And then up he went while is one we took close up, the only loca- the crowd held its breath to see one rectly to Centerville last week. We St. Joseph county is to be congratution we could get to show the details. of the neighbors shoot up into the thin Oh yes, the Grange at Centreville air on a real sky-larking trip that so well-bound and very attractive premi- agricultural agent. J. M. Wendt is a had all the various departments of big many of them had dreamed about



Everybody was there and Looking Fine.

the war was on, that they cleared over writer judge the Jerseys, Shorthorns, ing, as we have previously illustrated his tummy down the hatchway of the Guernseys and Herefords on exhibi- and described the one held at Coldwa- front compartment. The picture shows will even have a big airplane this week tion, and said it would not take us fif- ter last spring. that will carry passengers. Dad also teen minutes to do the job. We didn't These brake tests were in charge of shimmy dance while pondering over wrote that he is going to take a ride have our stop watch along, but it must H. H. Musselman, of the Agricultural the possibilities of the next ten minin the thing up in the sky and see how have really taken over seventeen min- College, and J. M. Wendt, of Centre- utes after the big propeller began to

The display of live stock was good were a modification of those of the the owner of the plane that if he was and I hated to work so hard. Now and attracted much attention of all American Society of American Engi- killed he would never, no never, com-

derneath the title, as follows: "Our knows what he's about every minute the best and cleanest we ever saw on half century ago or more.



The Handicraft Exhibit of Three Rivers' Club.

Testing the Belt Power of Gas Tractors.

A Room Furnished According to Good Taste,

# News of the Agricultural World

CATTLE SUPPLY NORMAL.

THE world's supply of cattle, sheep amity. and swine is approximately what gains in other countries.

ment to investigate the situation in peace. They would have this commis-Europe were of the opinion, however, sion modelled on the lines of the in- ed by congress after an investigation that American meat exports would dustrial conference called by President into the general subject of rural cred- will place the express service on the drop to pre-war figures before European herds had been entirely restored, Washington, with the exception that three years. The investigation reveal-character of the cartons used is coney European countries wish to send capital, labor and agriculture, the interest on farm loan mortgages in the were modeled on those of the railout for food purchases.

### FARM BUREAU DECLARATIONS INDORSED BY BUSINESS MEN.

statement that manufacturers and bus- woolen manufacturers over the propos- parison with Europeon countries the hundreds of letters in the last week to tralian wool. Both sides are laying backward in lending governmental aid iness men of the country have written ed shipment into this country of Austhe Michigan State Farm Bureau, in their claims before the United States or encouragement to the facilitation of dorsing the action of the Michigan, Ill- Senate. The following paragraphs are farm credits. inois, Indiana and Missouri Farm Bu- from a letter written by the National reaus in condemning the profiteering Association of Wool Manufacturers in gress of the Federal Land Banks and and avarice on the part of both capi- which they take issue with claims the Joint Stock Land Banks is a valid tal and labor that has created the prob- made by W. A. Snyder, of Denver, who exercise of a constitutional power for lems of the high cost of living and in- spoke for the growers: dustrial unrest that are disturbing the nation.

These manufacturers and business lowing: men make plain that they recognize that national disaster threatens if the ian wool to the United States is not government. Both the national banks farmers should turn to any such policy an attempt on the part of England to and the land banks are vested with not only that it has not "fixed" the as dominates organized labor today— dump wool here; it is a concession public functions; that is, both are aushorter hours and decreased produc- granted at the request of American thorized to act as depositaries and consideration it had reached the contion.

the farm bureaus on the economic stock and will not be available from national banks in their private aspect scrap, and cottonseed meal. The dequestions of the day agree that more the current domestic elip. production, industrially and agriculturin this country.

Muncie, Ind., Gear Works, writes: "It bales, or approximately 15,000,000 stated purposes of the act is to create should be apparent to any thinking pounds. man, reardless of his calling or occupation, that if conditions continue, fect of demoralizing prices of wool be- these securities and to use them as with continually reducing hours of la- cause the demand for these types of collateral security for their own bonds bor and strikes of workers, that the wool is so much greater than the sup- in lieu of mortgages." cost of living in this country will be- ply available. come prohibitive and beyond the reach of all ordinary people."

pany, Lafayette, Ind., writes: "It is a inadequate to supply the requirements great source of satisfaction to me as a of the mills for fine wool. the soil. I hope you will be able to call shortage of fine wools." a halt to these wild demands of labor of labor. If the farmer who has been compelled to work twelve to fifteen hours daily sees fit to tell labor when to stop, it is his privilege and duty. work but half that time."

Michigan State Farm Bureau.

However, the farm bureau federa- of the two attorneys in part is: of organized labor, but attacked the of the courts in a pending litigation, packing requirements will be of much profit. Accordinly the papers were spirit of profiteering that sways many of the courts in a pending litiation, interest and importance to farmers flooded last spring, as well as in 1918, manufacturers and business men' as we are of the opinion that congress who have other commodities to send with advertisements of 'Giant Butter

in is certain to lead to a national cal- that the provisions authorizing the in- not permit the use of paper wrapping

settle industrial controversies of varied referred to. The two experts sent by the depart- natures and to enforce industrial the world.

### AT ISSUE ON IMPORTATION OF AUSTRALIAN WOOL.

which we call attention are the fol- of such power; that they are appropri- fertilizer materials pursuant to a con-

No expression has come from organ- ited quantity of certain types of wool addition, the national banks are em-These manufacturers and business tion of production of fabrics, which iness. The only distinction is in the raw fertilizer materials as sulphate of men who have praised the attitude of wools are not available in domestic scope of the private functions. The ammonia, dried blood, tankage, fish

ally, with fairer treatment for the gram (namely 50,000,000 pounds) is in- institutions. farmers, is the only practical remedy correct. The quantity which has been for the serious conditions that prevail arranged for, to sell in the United W. A. Spurgeon, president of the indicated in the telegram, is 50,000 the government itself. One of the gress carries a provision to the effect

"The statement of the amount of visions, the opinion says: wool stock on hand, apparently, is tak-As an illustration of his point, Spur- en from the Department of Ariculture ity of this exemption. Congress, havgeon calls attention to the steel strike, figures for June 30, 1919, without reing the power to create government which has sent steel prices sky-high gard to changes in stock since that depositaries and financial agents, can GIANT "BEANS" ARE SAID TO BE and in instances forced the closing up time, and also without regard to the define the privileges which they shall of allied industries because of lack of quality of wool in stock. Of the total enjoy under federal law, and may ex-Thomas Duncan, president of the 000,000 pounds are three-eighth bloods tax legislation their securities and the Duncan Electric Manufacturing Com- or better. This is an amount entirely income arising therefrom."

"In order to keep the cost of cloth

# FEND FARM LOAN ACT.

These letters are typical of hundreds made on this act at the recent conven- press business of the entire country. The latter are often called snake of others received at the offices of the tion of the Farm Mortgage Bankers' While they will not affect the heavy gourds. Some enterprising seedsmen Association at St. Louis. The opinion movement of perishable farm products with a large supply of gourd seed of

### High Interest.

"The statute in question was enact- quired. MICHIGAN State Farm Bureau A BITTER controversy has develop able amortization by the borrowers. It tion No. 26, copies of which Headquarters is authority for the ded between wool growers and was further established that in com- secured at any express office. United States had been unusually

"In our opinion the creation by conare commercial credit institutions; "The amount mentioned in the tele- the land banks are agricultural credit

### Market for United States Bonds.

"In one particular, the land banks States in December, not November as have a close relation to the credit of to the control act now pending in con-"This amount will not have the ef- banks are authorized to buy and sell

Touching on the tax exemption pro-

"We have no doubt as to the validamount thus indicated, only about 254, ercise from the operation of its own

### NEW EXPRESS RULES.

for eight, six and even four-hour days FORMER CABINET MEMBERS DE- road Administration, which recently a farmer should have to work fifteen is a defense of the constitutionality of various lines into the American Rail- turning out record beans. hours a day while many mechanics the federal farm loan act. This state- way Express Company, which is agent ment was prompted by several attacks of the government in handling the ex- gourds, some round and some long.

being "inconsistent with true patriot- did not exceed its powers in the enact- to market by express, or goods to re- Bean," New Guinea Butter Bean," etc.

ism and Americanism and if persisted ment of the federal farm loan act and turn to city merchants. The rules will corporation of the federal land banks for packages over twenty-five pounds, Farm bureaus advocate a "square and the joint stock land banks and em- nor of ordinary paper boxes, wraped it was at the outbreak of the European deal" for everybody, capital and labor powering them to issue bonds which or unwraped, when the weight of the was at the outsteak of the European and agriculture, producer and consum- shall be exempt from taxation are not contents is over that limit. For shippartment of Agriculture. Losses in er; establishment of a national com- unconstitutional, and we feel confident ments over twenty-five pounds, woodwestern Europe have been balanced by mission with sufficient authority to that it will be so decided in the suit en containers, or fibreboard, pulpboard or corrugated strawboard containers of specified test strengths are re-

This standardization of express rules as many factors tend to limit the mon- it should give equal representation to ed the facts that the average rate of cerned. In fact, the new express rules backbone of the economic structure of United States ran from 5.3 per cent in roads and require the same kind of New Hampshire to nine per cent and containers, except that in the express even ten per cent in certain southern service a wider latitude is permitted and western states, and further that in the size of the carton used. The such mortgaes were rarely of a suffi- new regulations are embodied in Supciently long term to permit of reason- plement No. 5, to Express Classificaable amortization by the borrowers. It tion No. 26, copies of which may be

# MATERIALS.

REPORTS have reached the United States Department of Agriculture indicating that statements have been the same reasons as the creation of circulated to the effect that the De-"The principal points of error to the national banks is a valid exercise partment has "fixed prices" for raw ate instruments to aid in carrying on ference held with the producers of "The proposed shipment of Austral- the fiscal operations of the federal such materials at Washington on October 6-7. The department announced manufacturers for a supply of a lim-financial agents of the government. In clusion that, in the circumstances, it would not be warranted at the present absolutely necessary for the continua- powered to do a general banking bus- time in naming a fair profit for such partment, however, will continue fully to exercise its own powers under the licensing system against profiteering as well as in conjunction with the Department of Justice. The amendment a market for United States bonds. The profiteering or otherwise shall, upon conviction, be fined not exceeding five thousand dollars or be imprisoned for not more than two years, or both. Any act of profiteering under the law or any other violation of the law, may be prosecuted criminally after the licensing provisions thereof are terminated by a formal proclamation of peace.

# FRAUD.

"HAT the so-called "Giant Beans" which have been grown extensively in Michigan during the last two years, particularly by city gardeners, are not beans at all, being in reality gourds, is the startling information bring labor to terms it is the tillers of ly necessary to avoid any danger of the sail. I have you will be a shorters of the sail. I have you will be a shorters of the sail. I have you will be a shorters of the sail. I have you will be a shorters of the sail. I have you will be a shorters of the sail. gourds, is the startling information into effect on December 10, the date "Some of these beans' have been proauthorized by the United States Rail-duced in Detroit that are more than approved the new requirements. This each," declares Dr. E. A. Bessey of is regarded by express traffic officials M. A. C. "Growers all over the state  $T_{\mathrm{W.}}$  Wickersham and W. G. Mc- en to safeguard merchandise in transit can produce the largest specimens, and There is no reason in the world why Adoo, both former cabinet members, by express since the unification of the apparently they think that they are

"There are hundreds of types of by express, as such traffic usually this latter type on hand conceived the tion not only condemned the avarice "While fully conscious of the danger travels in crates and barrels, the new idea of disposing of it at a handsome

# Impresses Need of Potato Grading

By Joseph Passoneau

associated with value that they must payment is made. be stated when designating the price.

is different—unfortunately, quality and them, yet refuse to do so in the case price are not so closely associated at of the potatoes?" The answer is: The least at the producer's end of the line. buyer, through the use of recognized If the individual who inquired about grades and standards knows the kind plows were to ask his local grocer and quantity of the coal, sugar and about what he was paying for potatoes, it would be unusual if he did not not know the same about the potatoes, receive the prompt reply, "a dollar" or and until generally recognized grades whatever the case may be. On most and standards are adopted by the polines it is one price as far as the farmer is concerned.

ucts that most of us complain about.

as the producer sells his potatoes as this large. grades and standards in steel rails for largely upon demands of the market. designating price.

relatively, between a five-ounce scabby dealers were asked to sort a bushel of pound and one hundred and ten-pound the same pile, because of a lack of a

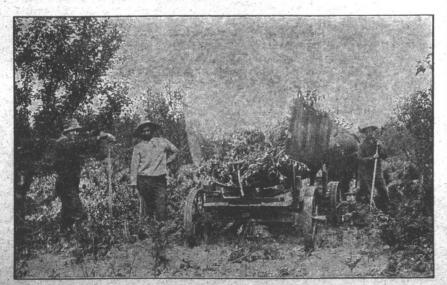
unstandardized products must No. 1 potato.

THEN the marketing of your per- either be sold by inspection or upon ishable and semi-perishable farm the reputation of the seller-never by products is compared with the the merits of the goods before they marketing of other classes of commod- are seen. Inspection only adds an exities one notices a vast difference in tra handling charge, and causes a the process. For instance, an inquiry great deal of inconvenience. For inaddressed to a steel mill as to the stance, a merchant in Omaha, Nebrasprice of rails is not likely to result in ka, orders a car of coal from Pittsdefinite quotations until the kind and burgh, a car of sugar from San Fransize of rails are specified, and a farm- cisco, a car of shingles from Tacoma er asking his hardware dealer as to and a car of potatoes from Maine. Let the price of rope will at once be asked us suppose that he receives bills of as to the kind and size of rope desired, lading for all of these cars the same Few prospective purchasers would day. If occasion demands he will write greet a merchant seriously with the a check or arrange with his banker to question, "What are plows worth to- make payment for those shipments upday?" If one did it is quite likely that on receipt of the bill of lading which he would receive a reply somewhat specifies the amount contained in each along the following lines: "We have car. He will remit for all of these a twelve-walking plow at one price shipments—except one. The car up-and a sixteen-inch gang plow at a vast- on which payment will be withheld ly different price." The same holds until the car arrives will be the one true of most classes of merchandise; containing the potatoes, of course. The size, kind and quality are so closely buyer insists on seeing these before

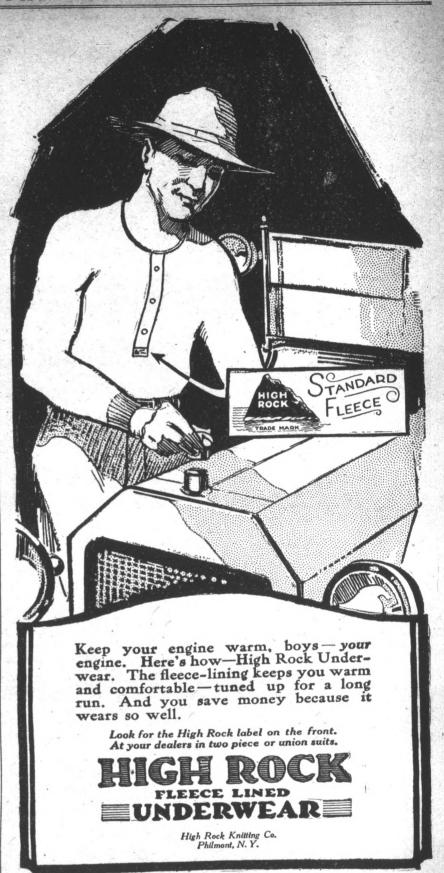
The question is asked: "Why will It is at this point that the market- the Omaha merchant pay for the coal, ing of certain classes of farm products sugar and shingles without seeing way of assuring him as to the quality of the stock he is buying. The seller To be sure, these commodities are may insist that he has a "fine" potato. usually graded before they reach the But what constitutes such a tuber? consumer, and it is this very item— Are smooth, disease-free potatoes grading—en route from producer to weighing from four to twelve ounces consumer which contributes to the "fine" potatoes or do potatoes of the "awful cost" of distributing farm prod- same quality weighing from twelve to twenty ounces come under the classi-It can hardly be said that any one fication of "fine." A "fine" potato in class of individuals is to blame; how- certain channels of trade is not always ever, the producer is as much at fault a "fine" potato in other channels. Hoas anyone in this respect. It is he who tels, restaurants and railroads quite most strenuously objects to grades and often want potatoes weighing from sixstandards. Regardless of who is to teen ounces up, very large bakers, but blame, one thing is certain: As long family trade does not want potatoes

potatoes, and so on, perishable farm Again, central western markets like products will never reach the same a round potato while the northwest level of perfection in marketing as market wants a long variety. Some have other classes of merchandise. markets will consume red potatoes, Certainly there is just as much need while other markets cannot handle for grades and standards by which to them at any price. In the main then, designate value-price-as there is for the fineness of the commedity depends

The shipper may say he has a No. Few will dispute the assertion that 1 potato, but what constitutes a No. 1 there is as much difference in value, potato? If each of fifty growers and potato and a twelve-ounce smooth, dis- No. 1 tubers, there would be many difease-free one as there is between fifty-ferent kinds of No. 1's sorted from common guage by which to judge a



A Home-made Brush Burner Proves a Great Labor-saver to the Orchardist.



A HORSE CAN TRAVEL WHERE AN AUTOMOBILE CANNOT GO

AUTOMOBILE CANNOT GO
Often in the deep snows of winfer an automobile cannot get through the drifts, but the horse can travel anywhere if he can secure footing.
There is just one thing will insure safe footing on any road anywhere any time, no matter how icy or slippery, and that is the



Whatever the occasion; a hurried trip to the doctor, an important call to town, a load of produce to be delivered your horse is ready when you are ready. The wise horse owner will go to his horse shoer early and have the safe, reliable RED TIP SHOES put on. Then he can laugh at the weather. No sleet storm, no sudden freeze will hold him back. His sharp, strong RED TIP CALKS can be adjusted in 20 minutes, and he is ready for the road. Avoid substitutes. LOOK FOR THE RED TIP

THE NEVERSLIP WORKS New Brunswick, N. J.

# **Anthony Fence**

A perfectly balanced staple tie fence. Strong wire, thoroughly galvanized. Every rod of 6-inch stay fence has 33 stay wires. Special book sent free. Dealers Everywhere.

American Steel and Wire





# SOY BEANS WANTED

If you expect to have any Soy Beans this year we shall be glad to have you submit samples with the amount and variety. Ask for envelopes O. M. SCOTT & SONS CO.

SEED PEAS BEANS Send us samples of your clover seed, peas and beans of all kinds and state your price cleaned or uncleaned.
W. L. IRELAND & CO.,
Grand Ledge, Michigan

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the particular shape you want and always the latest styles, and a wide variety.

The fine shoes are all that anybody could ask for in style and you get choicest leather

plus genuine comfort. You are sure to find

Work Shoes

Honorbilt Work Shoe leather is double tanned to resist the alkali in the soil, as well as barnyard juices. They are soft and easy on the feet yet long wearing and will not get hard when wet. Honorbilt Work Shoes will give double the wear of ordinary shoes.

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Sturdy, well-built shoes that stand rough treatment—the kind boys and girls like, and their parents, too. Shaped for grow-The quality is therethey wear like iron.

No matter who in your family needs a pair of shoes next, see your dealer who handles the Mayer Honorbilt line. Look for the name Honorbilt on the soles.

> F. Mayer Boot & Shoe Co. Milwaukee, Wis.



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The Michigan Farmer, Detroit, Mich



# Cheaper Milk

D. D. Aitken Outlines a Plan Whereby Milk Production Costs May Be Reduced

ing a census of the animals that are only way we can accomplish this is to pure-bred Holstein-Friesians and alive get the people interested who are in a August 1, 1919. The association had position to accomplish something, and many objects in view, one of the most that is why I first appealed to the important was to know the exact num- press to see if we cannot interest the ber of Holstein-Friesian animals in ex- owners of scrub animals sufficiently to istence.

mals are already reported, one or two with little expense. startling conditions have become ap- I am satisfied one of the best ways parent, and it is about one of these is through the county agents. Practithat I want to talk.

dering service in improving the dairy erica. Most of them have a lot of tact herds throughout the country. I have like rather than to start out to write be solved.

Friesian cattle because they are eco- to meet the wants and better the confaculty and make no particular effort ty agent to get busy in these counties. to advertise or in any other manner I would like the county agent of St. largely to replace their own, or to in- or Coffee county, Georgia; or Baldwin, as there is always a ready market for Alabama; or Dyer, Fayette, or Hendernot advertised and because someone Green or Jefferson county, Arkansas, does not come around and offer to buy or some of the southern counties of sell these bull calves for veal. I take of St. Lawrence county. it that many of them ought to be sold I want some of these county agents

consuming public that these young many of them there are who want bulls are not used for the betterment pure-bred registered Holstein-Friesian of the herds. These dairy farmers bull calves. Then I want them to take could sell them if they would advertise it up with those county agents in some them for sale, but it is too much trou- of the northern territory where great ble to write the letters, they do not numbers of Holstein-Friesian breeders want to be bothered about it.

grade herd, whether he lives in Geor- cows. gia, Alabama, Pennsylvania, Maryland ed in. or New York, (and there are counties dairy products as fast as we ought to. agents of the dairy states could fur-

What the farmer or dairyman wants,

HE Holstein-Friesian Association in my judgment, is a way of coming in of America, as you are doubtless contact with the other fellow who has already informed, has been tak- for sale what he wants to buy. The make them want to better their condi-As this work has progressed and tien if we can show them a way that more than one-half of the entire ani- they can do it with little effort and

cally every county now that is worth Last year the number of pure-bred while has a county agent, and as a Holstein-Friesian bull calves that went whole they are the most industrious, to slaughter run into the thousands, most intelligent, most public-spirited the great bulk of which should be ren- lot of young men that there are in Amherds all over the United States. The and good judgment, and I believe they question is, how are you going to bring can help us work out this problem. in contact the person who has these The average farmer very much prefers bull calves for sale and the person to talk to the county agent and tell who needs them in scrub or grade him what he has and what he would spent a good deal of time trying to to the agricultural department of his work out a mode of procedure that own state college and get the names of would bring about this contact. I have some county agents somewhere, He realized that if a farmer in Georgia or prefers to talk to his own county agent Alabama who had scrub cows could and if he does or not I know that the come in contact with a dairy farmer in county agent, if he has it in his mind, New York or Pennsylvania who was will make a special effort to get pureselling pure-bred Holstein-Friesian bull bred sires in his territory. I want the calves for veal, that the problem would county agents in territory such as northern New York and Wisconsin, I have realized also that the great where the dairy industry is intensified, bulk of Holstein-Friesian animals are where there are hundreds of pure-bred raised by dairy farmers who maintain bull calves, as fine as there are anyand keep a herd of pure-bred Holstein- where in the land, that can be utilized, nomical producers of milk and dairy ditions of farmers and dairymen in products, and these farmers have no less favored districts. I want the coun-

call attention to the bull calves that Lawrence county, New York, to write they produce. They keep the heifers to the county agent of Macon, Candler, crease their herds, or perhaps for sale, Choctaw, Clarke, or Elmore county, the females, but the bull calves are son county, Tennessee; or Craighead, them the dairy farmer of northern his own state, and see if he cannot find New York state thinks he is forced to a market for the surplus bull calves

for veal, but the great bulk of them who are making every effort that they are from high-class pure-bred dairy can think of in the counties where cows. They are from cows that have dairying is new, and where the men been improved by breeding for years, and women have but little idea of what many of them from herds that are av- can be accomplished by real dairy eraging from eight to twelve thousand cows, to interest themselves. I want pounds of milk in a year under ordi- them to get a list of the farmers in hary care, and from well-bred sires. their county who would like to im-It is a shame and an outrage on the prove their herds and find out how are located, and see what he can buy The result is there is no contact be- a carload for, all of them to be straight, tween the man who needs and wants, no slopers, any one of them a credit and ought to have the pure-bred bull as an individual, and from dams that calf, and the man who raises him and have good records in the cow-testing wants the market. On the other hand, association, or elsewhere, for producthe owner of the scrub herd or the tion, that make them valuable dairy That is what we are interest-

I would like the county agents of in the state of New York where there the state of Kansas, each one of them, are as many grade and scrub bulls in to pick out some county agent in the use as there are pure-bred), makes no state of Wisconsin, Michigan, Ohio, or apparent effort to improve his dairy Minnesota where they have great nummachinery. These farmers or dairy- bers of Holstein-Friesian cattle, and men just simply keep a bull to get the work up some plan whereby each can cow in calf, perhaps selling the heifer do service to their constituents by calves as well as the bull calves for handling these animals. There is no veal, because they are not eligible to good reason why it is not possiregistry. The result is, we are not im- ble to bring about the desired result. proving the facilities for producing I undertake to say that the county

(Continued on page 486).



Vern Anthony, of the Albion Pig Club.

# Purebreds via the Boys' Club

By C. A. Spaulding

tively impossible to get into the pure- structions that are to be given them. bred stock game.

able investment.

have demonstrated their ability in the and the profit made for the period. past to make superior gains on the The results of such clubs are far erally known it has not been thought brought to realize, from the demonwith pure breeds.

stock of all kinds.

Pure-bred live stock clubs are usu- ment. ally made possible through the coopstock and help in getting the work lesson in comparative profits of feedstarted. The boys themselves are or-

In the past ten years great strides ganized into a club with regular offi-have been made toward better live cers elected. They have a local adult stock in the United States. Previ-leader who acts as a supervisor over ous to the outbreak of the war in 1914 the work done. These clubs study the each year saw the importation of some work of stock production in their regof the best blood of the old families of ular club meetings and from the bullethe Continent and the best from the tins furnished them from the Colleges Isles as well. In spite of extensive of Agriculture and the Department of importation, in spite of all the work Agriculture. They agree, when they being done by live stock journals, ex- sign up, to take good care of the anitension departments and other agen mals and to feed and tend them as cies, many communities found it rela- nearly as possible according to the in-

They carry on the work throughout With the coming of the world war the year, all the time learning more and the increase in the price of meats about the live stock game from club of all kinds, some money, no doubt, meetings, extension workers, and studwas made from almost any kind of ies, and when autumn comes they exstock. The price of pork and beef in hibit their animals at the regular counall time has, however, been more or ty fair or at a special club fair or less dependent on the price of corn round-up. At this time the recognition and with the increase in the cost of of achievement is awarded to all who corn and other feeds of the concen- have done satisfactory work. Some trate type, as well as of the roughages, prizes are also given, these being scrub live stock is no longer a profit- awarded on the basis of quality shown in the animal exhibited, as well as the Pure breeds of the various sorts quality of the record of the work done

same feed and while this fact is gen-reaching. The communities are thus possible in some places to get started stration made, the great possibilities of pure-breds. In many cases the or-The Boys' Clubs, organized through ganization of the boys' club is but the the efforts of the Extension Depart- first step toward the permanent imment of the various Agricultural Col- provement of the live stock of the leges and the Department of Agricul- whole community. The boys themture, have had a considerable influ-selves become more interested in the ence and are exerting today a consid-farming business and become more erable influence in the growing of bet- proficient in handling stock. Then, too, ter seed corn, better seed potatoes and the social effects of such clubs with seed beans. These same types of clubs their recreational features, demonstraorganized now for the production of tional meetings, open meetings and pure-bred live stock are slowly but club trips, does much to make up for surely pointing the way to better live the lack which exists in some communities of good wholesome social amuse-

Perhaps the best way to appreciate eration of the bankers in financing the what these clubs are doing would be to projects. The banks will take the boys' examine in detail a few representative notes for the purchase price of the examples. Last year an impressive (Continued on page 492).



# Do You Remember Gasless Sundays?

NO better way could be found to illustrate and emphasize the usefulness of the Standard Oil Company (Indiana), and the broad and varied service it renders, than to take five minutes and imagine a gasless year.

Think how our lives instead of being full and complete through association with our fellow men would be circumscribed by the barriers set up by shank's mare.

Think how manufacturing would be hampered. How industry generally would be crippled. How crops would go to waste through inability to harvest, and the leaps and bounds that the cost of living would take.

Instead of the natural expansion of business that comes from service and usefulness the whole structure of business would be hampered through sheer inability to render to society that service which society has been accustomed to demand.

The Standard Oil Company (Indiana) is a public servant owned by 4649 stockholders, no one of whom holds as much as 10 percent of the stock.

The Standard Oil Company (Indiana) is doing a big job in a big way and has grown great simply by reaping the rewards that come from rendering the service demanded by business and society in a manner satisfactory and beneficial to the world at large.

### Standard Company Oil

(Indiana)

910 S. Michigan Avenue, Chicago, Ill.



Know Something About the "Works" in the Watch You Buy

F you open your watch and examine its mechanism, you will find it consists substantially of two supporting plates, between which is mounted a gearing of meshed wheels to take care of the movement, recording time. This is called the train, which we will speak of in our next advertisement.

The lower supporting plate in a Waltham watch is the foundation upon which every unit revolves and is fixed. It is bored with minute holes to take the pivots, screws, pinions, etc.

This lower plate is drilled and threaded by one of the most exclusive and wonderful machines ever designed by the genius of man—an exclusive Waltham invention from the master-mind of Duane H. Church.

Many operations are accomplished with such methodical, automatic regularity that one instinctively imagines that a marvelous human brain guides the extraordinary operations of this machine.

It makes every operation (and there are 141) with infinitesimal exactness to the ten thousandth part of an inch—flawless, beautiful in its complex simplicity every plate a replica of every other plate, proving Waltham standardization to be one of the miracles of American mechanical genius.

The plate of the foreign-built watch is subject to the variations of hand process. Made to variant sizes and models without precise relation to the parts which they are to contain, which parts are made elsewhere in many homes and small shops, by hand. No hand work could ever approximate the beautiful and flawless exactitude of this Waltham drilling and threading.

So when you buy a Waltham watch you are assured of a standardization of quality and leadership which has placed the Waltham watch on the pedestal of world dominion.

This story is continued in a beautiful booklet in which you will find a liberal watch education. Sent free upon request. Waltham Watch Company, Waltham, Mass.



# Save Money on Newspapers

Waltham Colonial A

Extremely thin at no sacrifice of accuracy

Maximus movement, 21 jewels

Riverside movement, 19 jewels

\$150 to \$275

or more depending upon the case

Many rural readers have bought their daily and the Michigan Farmer in combination at a price that saved them money.

# The Michigan Farmer---One Year Your Favorite Daily --- One Year

On rural routes only at prices specified below in "Our Price" column.

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Free Press, Detroit\$5.00	\$4.50
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Herald, Grand Rapids 5.00	4.50
Press, Grand Rapids 5.00	4.50
News, Grand Rapids 5.00	4.50
News-Courier, Saginaw 5.00	4.50
News-Statesman, Marshall. 4.00	3.25
Journal, Flint 5.00	4.50
Gazette, Kalamazoo 5.00	4.50
News, Cadillac 4.00	3.50
Enquirer, Battle Creek 5.00	4.50
Evening News, Monroe 4.00	3.50
Pioneer, Big Rapids 4.00	3.50
Blade, Toledo 5.00	4.50
News-Ree Toledo 500	4-50

The above combinations give you an average saving of Fifty Cents.

The Michigan Farmer, Detroit | Mentlen The Michigan Farmer When Writing Advertisers





# Our Service Department

DAM THE DITCH.

some years ago. Now there is a move to extend it and my tax will be heavy; also some people are planning to put a dam in at the head of the ditch setting dam in at the head of the ditch setting the water back on my meadow. Can they dam the water back or extend the ditch, and what remedy have I?
P. J.

If the proper signatures are obtained to the petition and the petition is approved as provided for in the statute that is all there is to it. As to the asthat is also provided for by the statute; and the determination at the hearing for that purpose is final. The damming back of the water can be restrained by injunction or damages could be obtained for the permanent injury to the property.

JOHN R. ROOD.

### LIABILITY FOR DEFECTIVE WORK.

Some time ago I let a job to a plumbing firm to put in a pressure tank and water system in my house. They installed the boiler without any safety valve and it has blown up. Are they liable?

Subscriber.

There is a statute on our books, appublic as qualified to do any particu- six months, or till dower assigned. lar kind of work requiring skill, and makes a contract in that capacity the law implies as one of the terms of his agreement that he will use ordinary care and skill in that capacity, whether the work be the drafting of a paper by a mason. It being plainly manifest that a pressure system without a safety valve would not be safe and properly installed, undoubtedly the person who has suffered from such a defective job has a complete remedy by the common law. In such a case the first thing to do is to put your case into the hands of a good lawyer. J. R. R.

# BUTTER-SEEDING ALFALFA.

What is the right amount of salt to-G. E. S. Osceola Co.

enough add a little more.

I should plow the oat stubble this

fall and then disk it and harrow it early in the spring, just as soon as the A ditch was put in from the lake land will do to work. Don't work it up me years ago. Now there is a move deep, but have a fine seed bed with deep, but have a fine seed bed with the soil underneath compact. Taking everything into consideration it probably will be best to seed the field to oats or barley. Barley is a better crop because it does not shade the ground as much as do oats. If you use either crop do not sow over one bushel to the acre. If the weather is exceedingly dry so that the young alfalfa will sufsessment of taxes for the improvements fer from moisture the best plan is to cut the oats or barley for hay and give the alfalfa all the moisture. If the season has plenty of moisture you can harvest the crop for grain and the alfalfa will come through all O. K. Ten pounds of alfalfa seed is sufficient for an acre. I would advise you to inoculate the alfalfa seed, in fact, you cannot afford to sow alfalfa without inoculation. The expense is very small and it will pay you. C. C. L.

### DOWER, ETC.

I married a widower whose children are all grown and have homes of their own. On his death what share of his estate do I take?—Subscriber.

If the husband leaves no will the parently procured by a plumbers' asso- widow would take one-third of the real ciation for the protection of their and one-third of the personal estate trade, requiring that all persons prac- owned by him at the time of his death ticing plumbing in the cities shall have as his legal successor and heir; but if a license and making it a misdemean- he left a will disposing of the property or, liable to fine, to do so without a differently she would have her eleclicense. This statute does not extend tion to take such as he had left her by to any work outside of the cities; and his will, or to take one-third of all the even if it did, would manifestly be of land of which he had legal possession no assistance to a person who had de- of an estate of inheritance or for the fective work done. However, in the life of another at any time during the absence of statute, there is a rule of marriage period and not duly bared by law that does protect the owner. It is her by signing the deeds or otherwise, a rule of wide application and univer- and to claim her paraphernalia, consal recognition. It is this: Whenever sisting of wearing apparel, etc., and any person holds himself out to the quarantine or support in the home for

JOHN R. ROOD.

### SEEDING ALFALFA WITH CORN.

How do you think the following plan of mine will work for alfalfa: I er the work be the drafting of a paper have ten acres that I wish to put in by a lawyer, the shoeing of a horse by corn in the spring and sow to alfalfa a blacksmith, or the building of a wall in August. Will put on two tons of by a mason. It being plainly manifest high calcium hydrated lime and 200 pounds of complete fertilizer, say 2-8-2 on the corn ground, and in August will sow to alfalfa. How will I get the alfalfa in the ground? Do you think this is a good way, or can you suggest a better plan?

G. W. S.

Generally speaking, alfalfa requires a well drained, fertile, sweet, and weed free soil. Assuming that the field in question is well drained and the early PROPER AMOUNT OF SALT FOR cultivation of the corn will be sufficient to kill all weed seed in the surface soil, the addition of two tons of hydrated lime and 200 pounds of a use for one pound of dairy butter? I high-grade commercial fertilizer when use for one pound of daily but have a field of new ground which has the corn is planted will furnish condiproduced crops of potatoes and oats, tions necessary for a good stand of alproduced crops of potatoes and cats, was seeded with timothy and clover, to seed the control of growing rapidly, the late seeding will One can never tell definitely the not be satisfactory. Early spring seedproper amount of salt to use in butter, ings after cultivated crops, with or It all depends upon your customers, without a companion crop, have the Some people like butter that is quite advantage of an assured supply of salty and some prefer butter without moisture for early growth. The seedsalt. It is all a matter of taste. Cream- ing in standing corn will be successful ery butter is usually salted one ounce only when rainfall is plentiful and the to the pound, and they vary this weather favorable for rapid growth. amount. If you are making butter for Assuming such conditions, the seed customers and they complain that the may safely be sown in the corn in July butter is too salty, the only thing to or early August and covered by the do is to put less salt in, while, on the use of a spike-tooth cultivator. Of other hand, if it is not quite salted course, the seed should be inoculated with the proper nitrogen bacteria.

H. L. B.

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# There Is a Delco-Light Man Near You

No matter where you live, there is a Delco-Light man within easy reach of you.

This means much more to you than mere convenience in the purchase of a Delco-Light plant.

These men are trained men—They KNOW electricity as applied to farm use.

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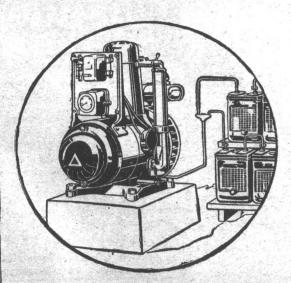
They can superintend the installation of the plant so that it will give you the most efficient and economical service.

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Shropshires Am offering 16 yearling rams and strength yearling ews of Senator Bibby breeding.

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

Shropshire and Hampshire Rams In order to finish the ram trade quickly I will give you your choice of a dozen very good year-lings at \$35.00.

KOPE-KON FARMS, COLDWATER, MICH, S. L. WING, Prop.

# The Ingleside Farm, Ionia,

ean still furnish 20 yearling registered Shropshire rams and 18 yearling registered ewes. HERBERT E. POWELL, Ionia, Mich.

300 Breeding Ewes
Choice Michigan Natives: Black faces and delaines 1
to 4 years old. Mostly 2 year olds in good condition
in lots of 10 to a carload. Almond B. Chapman,
South Rockwood, Mich. Telegraph Address Rockwood.

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

Shropshire ram llambs of good quality and some ewes all registered.
DAN BOOHER, R.4, Evart, Mich.

80 Reg. Shropshire Ewes yearling and lambs for sale. Jno. Grieve, Fowlerville, Mich. R. F. D. No. 3.

Maple Lawn Farm Shropshires. Rams and ram lambs. High bred, well wooled and registered.
A. E. Bacon & Son, R. 4. Sheridan, Mich.

40 Registered one and two year old Shropshire ewes mostly two's, also large, vigorous ram lambs ready for service, priced to sell. Flock established 1890.

Registered Shropshire sheep, 30 rams and 40 ewes.
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Reg. Shropshire Ram Lamba with both size of K. Topliff, Eaton Rapids, Mich.

For Sale Reg. Shropshire Rams and Ram lambs of quality. Also 6 ewes 2 to 4 yrs. old. Write R. J. & C. A. WILLIAMS, Middleville, Mich.

For Sale Sheep. Shorpshires, Lincolns, Cotswolds, Tunis; rams—ewes all ages, All recorded, papers with each. L. R. KUNEY, Adrian, Mich.

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and lambs also a few choice ewes.
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A nice lot of Registered Lincoln rams also a few good ewes for sale.
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Hampshire and Rambouillet rams for sale Clover seed ..... 15,558
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# Mich. Crop Report will all and a service and

G OOD rains during the latter part of September greatly improved seeding conditions, benefited wheat and rye that had already been sown, revived pastures, and increased the yield of late potatoes and sugar beets, says the joint crop report issued by Coleman C. Vaughan, Secretary of State, and Verne H. Church, Field Agent, United States Bureau of Crop Estimates. Seeding was greatly hindered by the extreme dryness of the soil, and grain that was sown prior to soil, and grain that was sown prior to the rains was very much in need of moisture to promote satisfactory germ-ination and growth. Pastures had dried up in many sections of the state and farmers have been compelled to resort to feeding more or less dry feed. Late potatoes have improved somewhat but the rains arrived too late to make a full crop. Notwithstanding the extreme dryness of the season corn is an excellent crop. Beans are showing good yields in the main bean counties of the central and eastern districts.

The average yield of winter wheat is 19.5 bushels as compared with 14.0 bushels last year and a ten year aver age of 17.0 bushels per acre. The total production is estimated at 19,246, tal production is estimated at 19,246,000 as compared with 10,010,000 last year. The average yield of spring wheat is 12.0 bushels per acre as compared with 18.1 bushels last year. The number of bushels of wheat marketed during September was 2,009,000; 17 mills and elevators reported no wheat purchased during the month. The total amount marketed since August 1 is 3,759,000 bushels 3,759,000 bushels.

3,759,000 bushels.

Corn is a much better crop than any since 1910, notwithstanding the dry summer and the damage it caused in some localities. The condition is 88 per cent, which is equivalent to 57 bushels per acre, or a total production of 65,159,000. As 40 per cent of the acreage is usually utilized for silage purposes, the net grain production is placed at 57,895,000 bushels.

The average yield of oats is 24.4

The average yield of oats is 24.4 bushels per acre, giving a total production of 38,040,000 bushels, which is the smallest production since 1907. Last year the yield was 40 bushels per acre, and the production 66,320,000 bushels.

The condition of buckwheat is 75 per cent, representing a total produc-tion of 759,000 bushels from the 52,000 acres planted, as compared with 780, 000 bushels from 78,000 acres last

The potato crop shows some improvement since the recent rains, but only 66 per cent of a crop is expected. This represents a production of 28, 571,000 bushels, as compared with 28, 560,000 bushels last year. The quality of the crop is generally good and digging has commenced in some sections.

The indicated yield of clover seed is 1.72 bushels per acre, as compared with 1.30 bushels last year. Acreage s small but the yield and quality are good.

The average yield of beans will be around 14 bushels per acre; the yield last year being nine bushels. Early threshing returns show a yield of 15 bushels, but later returns are expected to reduce this average. The crop matured early and a large portion was gathered without rain so that the quality is excellent. Some late fields are weather damaged. The following average yields are reported from other states: New York 15; New Mexico 9; Colorado 4 bushels per acre.

Tomatoes were practically a full crop and the quality was excellent. Cabbages and onions suffered from the drought and insects; the former shows an average yield of 7.5 tons and the latter 790 bushels per acre.

The apple crop is 37 per cent of normal as compared with 62 per cent last year; the greater part of it was in commercial orchards in the western counties, particularly from Oceana county north to Traverse City. A good crop was also reported from portions of the upper peninsula. Grapes were unusually fine in quality and there was practically a full crop. Pears are 62 practically a full crop. Pears are 62 per cent of a crop, two per cent better

The total amount of grain and seed threshed, as reported by threshermen up to and including September 20,

1919, is as follows: Yield Winter wheat ....15,113,393 Spring wheat .....689,025 Rye ......9,963,673 20.28 11.42 13.49 Rye ..... Barley 3,037,398
Buckwheat 7,619
Timothy seed 2,025
Clover seed 15,558



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### FALL PLOWING IN THE ORCHARD.

EVERY farmer who cultivates his apple orchard has considered the question of doing the plowing in the fall. But very few, however, have practiced breaking the ground before winter, because it seemed that late plowing would expose the trees to winter injury. Mr. T. Blair, who operates in the vigorous climate of Nova Scotia, has the following to say in the Toronto Mail, about fall plowing in the apple orchard:

"After the apples are harvested there is generally a slack time when orchard plowing can be done to advantage. Experience has indicated that shallow plowing is advisable in orchard practice, and that it is unwise to go deeper than five to six inches, and that the area close to the base of the tree should not be plowed deeper than three to four inches. There is as a rule, little cultivation after the first of July, and from that time on even if cover crops are not grown, a natural growth of some sort will have been made. This growth when turned under affords practically as good mulch as if left on the surface, and the fact that the ground has been loosened up tends to prevent as deep freezing as if left compact, for the more compact the soil the deeper will frost penetrate Where root killing of trees is liable to occur it may be wise to leave the cover crop mulch undisturbed as it assists materially in holding snow and as a result will give a better cover than if plowed in the fall. Other than this there does not appear to be any disadvantage in fall plowing as to possible winter injury from root killing. The great advantage is that a certain amount of work is out of the way for next spring, and should the spring be unfavorable for working land, the discing may be delayed much longer than it would be wise to delay plowing. Early orchard cultivation is of prime importance, and as it is usually necessary to plow once to work under accumulated vegetation, this should be as far as possible done in the fall, thus facilitating early spring work and hastening bacterial activity the next spring.

### BIG ADVANCES IN FURS.

PRICES advanced from ten to fifty per cent at the opening of the September auction of the Metropolitan Fur Exchange, Inc., in New York, over prices realized at the last sale in August, according to official figures. Buyers attributed the marked advances on certain furs to the popularity of practically all American furs, both here and abroad, and to the general shortage of the fur catch. The sales approximated \$200,000.

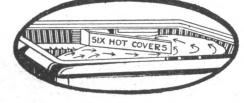
It was estimated that beaver advanced twenty per cent, the highest price being \$42.50 and the lowest \$5.50. Skunk advanced fifteen per cent, the highest price paid being \$9, and some skins realizing as low as seventy-five cents each. Hudson seal advanced fifty per cent, the skins bringing from \$3.321/2 to \$3.65. Silver fox was unchanged, the highest price paid being \$320 per skin and the lowest \$55. Stone marten advanced twenty per cent, skins realizing from \$13.20 to \$22. Mink advanced ten per cent, prices ranging from \$2.20 to \$9.60. Mole was unchanged, prices ranging from six cents to thirty-two cents per skin. Squirrel advanced ten per cent, prices ranging from sixty-four cents to \$2.70. Muskrat advanced forty per cent, prices being from fifty cents to \$2.75.



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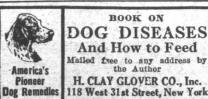
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BARN PAINT \$1 PER GALLON
Get factory prices on all paints.
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Trained American Fox Hounds Rabbit and Skunk
dogs all ages. Send stamp.
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Agricultural I ime High calcium hydrated lime lots of 20 tons or more. Delivered, price promptly quoted on request.

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POTATO BAGS sold direct to the grower at sale prices. Lincoln Bag Co.. Springfield, Ill.

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Winter is coming Will you go another season shoveling snow and freezing like you did last winter, or will you secure the STANDARD INSIDE CHEMICAL CLOSET and enjoy city comfort the year round? You owe it to your family to do away with the old out door closet. You can buy the Standard on a positive money-back guarantee, if not just as represented.





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THE STANDARD INSIDE CHEMICAL THE STANDARD INSIDE CHEMICAL CLOSET is strongly and handsomely made, It is scientifically constructed—no odors—no trouble. Finished in pure snow white enamel and can be readily installed in 30 minutes by any one in any place in the house. A toilet you can show your friends and be proud of. Order today on our positive guarantee. Shipped anywhere. "Send for catalog and special 10 day advertising price today."

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# Chemical Closet Mfg. Co. GRAND RAPIDS, MICH.

District Factory Representatives Wanted

# Farms and Farm Lands For Sale

Southern Farm: Fine for dairy, stock and fruit, 900 acres: improved mackinery, well stocked and fruit, 900 acres: improved mackinery, well stocked and watered, 4 dwellings, 10 tenant houses and 4 barns, fenced with hog wire. 130 acres in peaches, which ripen 10 days ahead of the famous Georgia crop, bringing a fancy price. Crop sold \$35,000 last season. Will grow cotton, corn, oats, cane, peaches, oranges, strawberries, figs and all kinds of hay crops. Entire crop netted owner \$50,000 last season. No better stock farm in South, only 50 miles from the Gulf, located on Main Line of L. & N. Ry. within 300 yard of station; 50 miles from Mobile or Pensacola. Write for detailed description and price. on and price. J. W. BEESON, Meridian, Miss.

### I Have One-Half Section of Best Virgin Soil

Lumbered about six years. Can be fitted for plough at \$10 per acre. Timber to build all buildings and fuel for life-time. Have cleared 80 acres in two years. Forty acres almost ready for next year. Expect my potato crop this year to pay over one-half of it. High altitude and free from frost. Two and half miles from market on stone road. Will sell all or divide at \$25 acre cash or \$30 on terms. Should be looked over this fall while potato crop is still in the ground.

### 207-Acre Michigan Farm, \$9500; Including Fine Span

7-year-old horses, large quantity oats, corn, potatoes, for, only \$2500 down cash required, balance easy terms. In splendid section, mile and half to hustling R. R. town, 14 miles large city and university, 140 acres heavy erop-producing tillage, woven-wire fenced pasture for \$2\$ cows, bordering river for mile; fine woodlot, timber, fruit. 2 story 7-room house, river view, 2 barns, 1000 bu. corn houses with drive way, &c. Details page \$2\$ big Fall Oatalog, just out, farm bargains \$2\$ states; copy free. STROUT FARM AGENOY, \$2\$ B. C. Ford Bldg., Detroit

Michigan Country Home in "The College County" for sale. Immediate possession: on long term contract if desired, fully equipped 200-acre dairy farm with established state and federal inspected herd, registered Holstein-Friesian cattle: two good farm homes within 5 minutes of State Normal College, 30 minutes of University of Michigan, 50 minutes of Detroit, 90 minutes of Toledo, over good roads. With or without cattle and equipment. William B. Hatch, Ypsilanti, Mich.

Farm for Sale 240 Acres in Washtenaw County, silanti, price 375 per acre, terms reasonable; buildings alone are worth price asked for farm. John Wagner, 1161 Helen Avenue, Detroit, Mich.

Rich Michigan Farms. Low prices. Easy terms. STAFFELD BROTH.
ERS. 15 Merrill Building. Saginaw. Michigan

87 acres N. W. Ann Arbor good land, good bldgs.
Mr. McADAMS, 1250 W. Euclid, Detroit, Mich.

WANTED to hear from owner of farm of un-improved land for sale. O. K. Hawley, Baldwin, Wisconsin.

FOR Sale or for Mich. Farm. Producing farm in Prozerks, "Mineral Springs." Trucking clears four hundred acre. DIXIE FARM, Grannis, Ark.

Wanted—To hear from owner of good farm for sale. State cash price, full descrip-tion. D. F. Bush, Minneapolis, Minn.

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# FARM FOR RENT IMMEDIATE POSSESSION

Rich land, part of a large estate, new buildings, good markets, paved roads, near-town, railiroads, high school, grade schools, churches. No fertilizer required, Good soft water. American farmers as your neighbors. Land plowed.

crs as your neighbors. Land plowed.

TERMS

Cash rent \$25.00 per acre, or half crop basis. You to furnish implements, live stock and labor. Owner to furnish half cost power, baling, sacks, etc. Under these terms, through a period of five years, (term of lease), your share should average not less than \$50.00 per acre and with good hard work, well directed, can average \$75.00 per acre per year.

per year.

LOCATION

This farm of 60 acres, and several others like it up to 160 acres, are known to be in one of the most productive farming sections of America. Your future would be what you would make it. These farms are located in the very center of the famous San Joaquin Valley, at Chowchills, on the main line of the Southern Pacific R. R., on the wonderful paved California State Highway, near Fresno, California.

LAND and SOIL.

The land is a great valley floor and the soil is deep and rich—there is none better anywhere.

Work and honest effort will make any man on this land independent.

CROPS and CLIMATE
The land produces two crops each year. Anything can be grown other than tropical fruit. A perpetual, year round mild cilmate makes these unequaled crops and earnings possible. Grain alfaira, truck, berries, fruit—in fact anything and everything—you will get more than twice as much in money from your crops. An acre will feed twice the live stock. Will produce twice the milk and butter. And the markets are just as good. CROPS and CLIMATE

Good industrious, hard working farmers will be given a five year lease on one of these farms. There is no trick or scheme in this offer. Real men and their families are the only ones wanted—none others will be accepted. 400 of the wisest and best central states farmers and bankers have bought land on all four sides of these farms at from \$200 to \$250 per acre. If you like the country, when you have made friends with those all around you at Chowchilla, when you learn all of this and more is the truth—when you have made a success as a renter or a farm manager, you will be given an opportunity to own a farm of your own—pick it out and you can have an option on it. I want you to succeed and will helm you. YOUR LEASE

INSTRUCTIONS

TNSTRUCTIONS

To qualify—to be able to make good—you must know farming—you must have live stock—implements—you must know a good thing when you see it and be willing to keep your place up to the same high standard of others. You must have some money—you must be looking for a chance to be a successful farmer. Answerquick and tell us all about yourselt, what you have been doing, persons in your family, list your live stock, implements, state money on hand and available and when you can go and take possession. Four answer will be irested in confidence. This is an especially will call on you at once. This is an opportunity of a lifetime, Answer today.

Address Eastern Trustee

Address Eastern Trustee Suite 612 109 N. Dearborn St., Chicago, Ill.

Best 10 Acre Berry Farm in Michigan, for sale by owner. Skinner Irrigation Fine build-ings. Inside of corporation. A snap. Write for photos and terms. Lock Box 98, Evert, Mich.



WHEAT TRAFFIC SITUATION EX-PLAINED:

EXPLAINING the wheat traffic situation, Walker D. Hines, Director General of Railroads, has authorized the following statement:

"My associates and I have been and are giving most earnest consideration to the transportation of wheat, but it is important to have it clearly understood that the present inability to transport the wheat is due to causes which the Railroad Administration cannot control. On May 20 and again on May 29 the Railroad Administration issued notices to the public that in view of an expected large crop of wheat and the necessity of utilizing all available railroad equipment to the fullest possible extent, the wheat crop would have to be handled under the permit system under which wheat would not be accepted for transportation until there were facilities for unloading it at destination.

"The permit system which is administered in connection with the Grain Corporation was put into effect in accordance with public notice on August l, and since that time permits for the shipment of wheat have been issued only when there were facilities at destination for unloading it. The reason the Railroad Administration has not been supplying more cars for wheat is that the elevators are full at the proposed destinations and consequently the wheat could not be unloaded from the cars.

"It is absolutely necessary to avoid a situation where vast numbers of railroad cars would be filled with grain which could not be disposed of at destination, because this would result in practically taking the cars out of the transportation service and using them for storage and depriving the public generally of cars which are badly needed for business of every sort.

"The Railroad Administration is prepared as an emergency measure to provide ample freight cars to take care of all wheat that can be unloaded out of the cars at destination, giving preference to wheat on the ground. The situation thus becomes one of finding elevator capacity to take care of the wheat at destination.

"My associates and I are using every endeavor to improve the situation through cooperation with the United States Grain Corporation and that corporation is following up the matter in a most active way. It must be appreciated, however, that there are wide limitations upon the extent to which grain can be immediately moved out of the elevators on account of conditions in the foreign market and conditions of ocean shipping and it will be exceedingly difficult to overcome these limitations. Just as fast as elevator capacity can be provided at destinations, the Railroad Administration proposes to give preference to the wheat movement and furnish the cars to move it, but it would make the situation worse and greatly injure transportation generally to tie up cars by loadin them with wheat which could not be unloaded at destination."

NORWAY VOTES FOR PROHIBI-TION.

THE prohibition referendum in Norway is an overwhelming triumph for supporters of prohibition, the figures being: For prohibition 403,-904; against 282,472. In Christiana only was there strong opposition, 70,000 voting against and 20,000 for. The measure does not affect wines and beer.



There is a chicness about Vassar Sweaters that makes them most delightful for all outdoor wear.

> The Vassar Sweatere come in styles suitable for all members of the family

VICTOR-VASSAR KNITTING MILLS 48-50 Jefferson Avenue Detroit, Michigan











# FARM BUREAU WORTH WHILE TO THIS FARMER.

MR. CARNS, of Calhoun, says this about the work of the farm bureau: "The Calhoun County Farm Bureau was partly responsible for my going into the pedigreed rye business which has netted me a nice profit during the past two years. For over twenty-five years I have been plugging along just nicely breaking even on my farm, but now I can see a possibility of laying up a comfortable bank roll which my wife and I can enjoy in old age. The county agent has paid a number of visits to our farm and he has put new life into my work. He has encouraged me to use more marl on my land and the results are beginning to show in good stands of red clover. The Federal Farm Loan Association which he helped to organize has enabled me to purchase a new tract of land which will net me a fair profit each year, besides paying interest on my investment. I would not give up my membership in the Calhoun County Farm Bureau for many times what it cost me to join the organization.

"The farmers in my community who understand the farm bureau proposition are enthusiastic supporters of its program of work. The only ones who are knocking the organization are the ones who still have the old idea that the county agent is supposed to look them up and tell them how to farm. These farmers never come out to the grange meetings nor to farmers' club meetings and they don't want to get acquainted with the county agent. I believe that they will take more interest in their work when they realize that the farm bureau is helping to build up their business.

"I was more than pleased to read about the State Farm Bureau program of work in a recent issue of the Michigan Farmer. It is certainly a splendid program and I believe that it is the salvation of the farming business."

### MICHIGAN GRANGE TO SELL PRO-DUCTS OF MEMBERS.

THE executive committee of the Michigan State Grange took an important action a few days ago relative to the cooperative marketing of their members' products, especially potatoes. This matter has been under discussion for some time, but there One Hundred Years has been some hesitancy about starting the work until the officers were thoroughly convinced that safe and efficient sales machinery could be secured.

The success of the Michigan Potato Growers' Exchange last year led to a careful examination of its methods. The committee found that the exchange was organized on a sound business basis and officered entirely by successful farmers. This evidence convinced the officers of the State Grange that they were justified in making a contract for their large membership to market their potatoes and other vegetables and fruits through the exchange. Such a contract has been made and it is estimated that this new combination will give a total tonnage of over six thousand cars.

Pretty boxes of paper and envelopes retry boxes of paper and envelopes used to be frequent gifts for birthday or Christmas time. Many of these have never been used, but are stored away in the desk or the top shelf somewhere. Get these out now and write letters to every friend you can think of. These are days when hearts are in need of a word of cheer. Let yours be the voice to speak that word. Your stationery cannot be put to better service. And you will get back many a letter that you will prize as long as you live.

# CALORIC-Your Guarantee of Perfect Pipeless Heating

ALORIC means, first of all, a heating system placed in your cellar that will heat your entire home--through one register -- to the comfortable temperature of 70 degrees, in the very coldest weather.

It means an installation at low cost--in old homes as well as new. It means no tearing up of floors or walls--no unnecessary expense--no bother--no dirt. It means perfect heat for every home--at lowest

possible fuel cost.

### The CALORIC Iron-Clad Guarantee

WHEN you purchase a CALORIC, you do so knowing positively that it will heat your home--one to eighteen rooms-perfectly, regardless of the temperature outside. Because--we guarantee this in writing. We guarantee to heat your building to an average of 70 degrees in the coldest weather or refund your money.

And CALORIC heat means more than warmth. It means an abundance of balmy air that circulates constantly from room to room. This circulating heat is healthful heat. It does away entirely with the close, stuffy, enervating atmosphere that causes so much unnecessary winter sickness.



# More Than 76,000 CALORICS In Use

HERE are undoubtedly several CALORICheated homes in your own neighborhood. If you want the names of neighbors who are included in the list of 76,000 satisfied owners, write us to-Then you can get first-hand proof of the wonderful efficiency of this simple, sturdy, low-cost heating system. You can get the evidence of homefolks as to its remarkable fuel-saving features. Your friends will tell you that CALORIC Pipeless Heating is an absolute, unqualified success.

# **Get The Facts Today**

PLEASE see your local dealer at once. If you don't know him, write us direct. We will be glad to give you complete information regarding this better heating system for your home.

See the CALORIC at State and County Fairs

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Cincinnati, Ohio 625 E. Michigan Ave., Lansing, Mich.





### DICKEY GLAZED TILE SILOS

"The Fruit Jar of the Field" Read what Dickey silo owners have to say. Send for Catalog No. 9

W. S. DICKEY CLAY MFG. CO.,

Kansas City, Mo. MACOMB, ILL. Chattanooga, Tenn.

# SEEDS WANTED

Michigan Grown
Winter Vetch, Rye and Vetch, June and Mammoth Clover, Alfalfa, Sweet Clover, Alsike and Field Peas. Known varieties of Garden Peas, Beans and other Garden Seeds, if High Germination and 1919 crop.

Send samples for test.
The C. F. DePuy Co. Pontiac, Mich.

# LEARN AUCTIONEERING

CULL BEANS FOR FEED Car lots or less. Ask for prices. YOUNG-RANDOLPH SEED CO., OWOSSO, MICH.

WE WANT VETCH. SEND US SAMPLES YOUNG-RANDOLPH SEED CO., Owosso, Mich. Please mention The Michigan Farmer

when writing to advertisers.

### CHEAPER MILK.

(Continued from page 478).

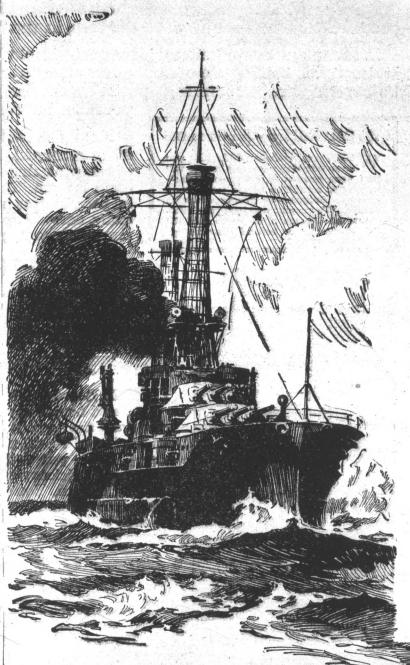
nish two thousand creditable registered Holstein-Friesian bull calves, straight on the back, wedge shape, typey, from good dams and good sires, that would be a credit to any scrub or grade herd and buy them at the source of supply at a very low price indeed when they were two weeks old. These could be crated and shipped by express to points where they were wanted, or they could be shipped in carloads and distributed in states at a very much less expense.

The trouble, as I see it, has been that the only animals that have been advertised are those from high-record dams in certain popular lines of breeding and they have been sold at high prices because they represent some specialty of selective breeding. It is from these prices that the owners of scrub herds have been measuring the probable cost to them, and I want to say to you men who use scrub sires, that you are laboring under a tremendous disadvantage. The average grade of the second generation will give fifty per cent more than the average scrub from which the generation springs, that is, if your scrub herd is averaging four thousand pounds of milk a year or one hundred and seventy-five pounds of butterfat, you can increase the milk fifty per cent and you can increase the butterfat fifty per cent by the second generation by using purebred Holstein-Friesian sires. It has been demonstrated in a great number of instances, and it is not alone this difference that enures to your profit; the maintenance of the scrub is practically equal to the maintenance of the grade, and while the scrub might have been making you a loss with the four thousand pounds of milk, the grade would be liable to make you a profit at six thousand pounds of milk, and you cannot afford to go on making dairy products with animals that are not calculated for that purpose any more than you could use scrubs to produce beef at the lowest possible cost of production. You have got to have beef machinery if you produce beef economically and you have got to have dairy machinery if you produce dairy products economically. The scrub has been improved upon. There is a good deal better machinery now than there used to be for manufacturing dairy products and manufacturing beef. You might as well continue to use an old wooden plow in the raising of agricultural products as to think of keeping a scrub herd to produce dairy products.

What I aim to do is to make myself useful if I can; make myself of some service in assisting in improving the dairy herds of the country. I am prejudiced for the black-and-white milking machine; I believe it is the best, the most economical. Others favor other breeds of dairy cattle, but what I aim to impress upon your mind is that you cannot afford to go along with this old machine. Whatever pure-bred dairy animals you like the best that comes nearest to filling your mind's eye, both for appearance and production, then take that breed of animals, but do not continue the scrub.

I believe that practically every county agent in this country could set aside day when he would determine to take some of his constituents who were interested in improving the breed of his county, and go out and get orders for pure-bred dairy bull calves and in a single day place a carload in his county. I am thoroughly satisfied that the average dairy farmer who is working sixteen hours a day does not have time to think, and if he does he does not have time to carry into operation the result of his thoughts in getting a bull calf. He is too tired to start out to write letters to the county agent up north, or down south, or east, or west, but if you will go to him and (Continued on page 499).

If you had been on the Arizona



HERE she comes, homeward bound, with "a bone in her teeth," and a record for looking into many strange ports in six short months.

If you had been one of her proud sailors you would have left New York City in January, been at Guantanamo, Cuba, in February, gone ashore at Port of Spain, Trinidad, in March and stopped at Brest, France, in April to bring the President home. In May the Arizona swung at her anchor in the harbor of Smyrna, Turkey. In June she rested under the shadow of Gibraltar and in July she was back in New York harbor.

Her crew boasts that no millionaire tourist ever globe-trotted like this. There was one period of four weeks in which the crew saw the coasts of North America, South America, Europe, Asia and

### An enlistment in the navy

gives you a chance at the education of travel. Your mind is quickened by contact with new people, new places, new ways of doing things.

Pay begins the day you join. On board ship a man is always learning. There is work to be done and he is taught to do it well. Trade schools develop skill, industry and business ability. Work and play are planned by experts. Thirty days furlough each year with full pay. The food is fine. A full outfit of clothing is provided free. Promotion is unlimited for men of brains. You can enlist for two years and come out broader, stronger, abler. "The Navy made a man of me" is an expression often heard.

Apply at any recruiting station if you are over 17. There you will get full information. If you can't find the recruiting station, ask your Postmaster. He knows.

Shove off! Join the U.S.

FROM KEROSENE



**Agents Wanted** 

Make your home bright and cheerful, saving one-half on oil. Government and leading University tests prove this wonderrui new Addoin nearly nive times as encient as best found wick open-flame lamps. Burns 50 hours on one gallon common kerosene (coal-oil). No odor, smoke or noise, no pumping up, easy to operate, won't explode. WON GOLD MEDAL. GUARANTEED. Prove for yourself, without risk, by

TEN NIGHTS FREE TRIAL that Aladdin has no equal as a white light. If not satisfied, return at our expense, \$1000 given anyone showing us an oil lamp equal in every way to this NEW MODEL 8 ALADDIN.

GET YOURS FREET We want one user whom customers can be referred. In that way you may get your own without cost. Be the first and write us quick for 10 DAY FREE TRIAL OFFER and learn how to get one FREE. MANTLE LAMP CO., 418 Aladdin Building, CHICAGO LARGEST KEROSENE (coal oil) MANTLE LAMP HOUSE IN THE WORLD Make big money spare or full time. Our easy selling plan makes experience unnecessary. We start you without money. Sample sent for it days trial and GIVEM FREE when you become a distributor.

Simple, practical, economical, Attach in Sminutes. Nothing to get out of order—cannot fin-jure car or cause tire wear, Easy to operate—will last a times its price in emergencies. SEND NO MONEY

Novelty Mig. Co., Dept. M. Abingdon, M.

Please Mention The Michigan Farmer When You Write to Advertisers

# WORLD EVENTS IN PICTURES



Emile Donaldson, a French orphan, is the Mascot of the U. of P. Football Team.



Julian Baker, brother of Secretary of War Baker, at work on poster to assist in marine recruiting.



Anything on wheels was eagerly seized in Boston to aid in carrying home army food.



Mayor Smith, of Omaha, Neb., was hung by mob which lynched negro, but will recover.



Leaders and counsel of the steel strikers leaving the Senate office building, Washington, D. C.



Remarkable Photograph showing the Tornado-swept Town of Corpus Christi, Texas, which was practically wiped out of existence with large loss of life and property.



Judge E. H. Gary, chairman of the United States Steel Corporation, refuses to arbitrate.



Cardinal Mercier and Liberty Bell at Independence Hall, Phila.



New York State Constabulary are busy maintaining order in the Buffalo steel strike; the mounted officer is driving strikers from the doorway.



Judge Alton B. Parker unveils Lincoln Statue at Manchester, Eng.



A Quartet of Fair Milkmaids in Boston having a little fun after a lesson in milking cows as a part of the agricultural course which many girls there are now taking up.



German Interned Prisoners from Forts Oglethorpe and McPherson, lined up in Hoboken beside their special train before being taken aboard the Transport Pocohontas, on which they sailed for Rotterdam.



BUY FENCE POSTS direct from for-ered your station. M. M. care of Michigan Farmer.

Crooked Trails and Straight By Wm. MacLeod Raine

CHAPTER I. Following a Crooked Trail.

A had been moving for hours. It the time the town was settling itself expression. and La Junta streets the cloud was he had earned his sobriquet. churned to a greater volume and density. From out of the heart of it cantered a rider, who swung his pony as on a half dollar, and deflected the remuda toward Chunn's corral.

The rider was in the broad-rimmed felt hat, the gray shirt, the plain leather chaps of a vaquero. The alkali dust of Arizona lay thick on every exposed inch of him, but youth bloomed inextinguishably through the grime. As he swept forward with a whoop to turn the lead horses it rang in his voice, announced itself in his carriage, was apparent in the modeling of his slim, hard body. Under other conditions he might have been a college freshman for age, but the competent confidence of manhood sat easily on his broad shoulders. He was already a graduate of that school of experience which always holds open session on the baked desert. Curly Flandrau had more than once looked into the chill eyes of death.

The leaders of the herd dribbled into the corral through the open gate, the fourth. "Are you aiming to sit shout. and the others crowded on their heels. Three more riders followed Curly into rode told of long, steady travel. One right down if he is." of them, a red-haired young fellow of stiffly from the saddle.

gave out promptly.

ness, Mac. We'll put a deal right sips to chew on. through if Warren's here," decided a CROSS Dry Valley a dust cloud third member of the party. He was a road at a right lively gait." tough-looking customer of nearly fifty. rolled into Saguache at the brisk From out of his leathery sun-and-wind chafed from the saddle. Got anything heels of a bunch of horses just about beaten face, hard eyes looked without that'll heal it?" "Bad Bill" Cranston he to supper. At the intersection of Main was called, and the man looked as if into the stable and the redheaded cow-

"And what if he ain't here?" snarled horse at Bill.

This Slender Girl Dumfounded Them.

down and wait for him?" "We'll cross that bridge when we comin'?" the enclosure. Upon them, too, the come to it," Bad Bill answered. "Curly,

desert had sifted its white coat. The want to ride up to the hotel and ask if Saguache? Ain't you off your run stained withers of the animals they Mr. Dave Warren is there? Bring him some?"

"Not till we've finished this busis had the manner of a bully. Unless his prove embarrassing. shifty eyes lied he was both cruel and vindictive.

> moved, but in the voice one might down here. have guessed an amused contempt. Double M?" "All right. I won't, since you mention it, Lute."

dusty street toward the hotel. Black- Had he been in the stable while the well trailed toward the windmill pump. remuda was still in the corral? Had

could unload on him prompt," he tive?" grumbled at Cranston without looking toward the latter.

"I didn't promise he'd be hanging round your neck soon as you hit the faces," Mac called from the stable. town," Cranston retorted cooly. "Keep your shirt on, Lute. No use getting the Hashknife?" he asked Davis. in a sweat."

The owner of the corral sauntered assistant foreman." bunch of horses milling around.

"Been traveling some," he suggest- great, old hoss. ed to Bad Bill,

"A few. Seen anything of a man named Warren about town today?"

stock to sell. Might you be the outfit things out together before he's expecting?"

drinking cup from Blackwell and ners in this enterprise. drained it. "I reckon the dust was caked in my throat an inch deep."

on the flank of a pony circling past.

other hand he did not want to stir sus- suit me."

"Looks like you been hitting the

Mac cut in. "Shoulder of my brone's

"You bet I have." The man hurried puncher winked across the back of his

The keeper of the stable and the young man were still busy doctoring the sore when Curly arrived with Warren. The buyer was a roundbodied man with black gimlet eyes that saw much he never told. The bargain he drove was a hard one, but it did not take long to come to terms at about one-third the value of the string he was purchasing. Very likely he had his suspicions, but he did not voice them. No doubt they cut a figure in the price. He let it be understood that he was a supply agent for the rebels in Mexico. Before the bills were warm in the pockets of the sellers, his vaqueros were mounted and were moving the remuda toward the border.

Curly and Mack helped them get started. As they rode back to the corral a young man came out from the stable. Flandrau forgot that there were reasons why he wanted just now to be a stranger in the land with his identity not advertised. He let out a

"Hello, Curly. How are things a-

"Fine. When did you blow into

They had ridden the range together "And say, young fellow, don't shout and had frolicked around on a dozen about the same age as Curly, swung all over the place what your business boyish larks. Their ways had suited is with him," ordered the previous each other and they had been a good "Me for a square meal first off," he speaker sulkily. Lute Blackwell, a deal more than casual bunkies. To put squat heavily muscled man of forty, it mildly the meeting was likely to

> "Came down to see about getting some cows for the old man from the Curly's gaze traveled over him leis- Fiddleback outfit," Davis explained. "I urely. Not a muscle in his boyish face didn't expect to bump into friends 'way You riding for the Bar

> There was a momentary silence. Curly's vigilant eyes met those of his The young man cantered up the old side partner. What did Slats know? "Thought you'd fixed it with this he seen them with Bad Bill and Black-Warren to be right on the spot so's we well? Were his suspicions already ac-

"No, I'm riding for the Map of Texas,' 'Flandrau answered evenly.

"Come on, Curly. Let's go feed our Flandrau nodded. "You still with

"Still with 'em. I've been raised to

from the stable and glanced over the "Bully for you. That's great. All

right, Mac. I'm coming. That's sure Well, see you later, Slats."

Flandrau followed Mac, dissatisfied with himself for leaving his friend so "He's been here se-ve-re-al times, cavilierly. In the old days they had Said he was looking for a party with told each other everything, had talked campfire. He guessed Slats would be "We might." Bad Bill took the hurt, but he had to think of his part-

After supper they took a room at the hotel and divided the money Warren "Drive all the way from the Bar had paid for the horses. None of them Double M?" asked the keeper of the had slept for the last fifty hours and corral, his eyes on the brand stamped Mac proposed to tumble into bed at once.

Bad Bill shook his head. "I wouldn't. Bad Bill turned away and began to Mac. Let's hit the trail and do our unsaddle. He did not intend to volun- sleeping in the hills. There's too many teer any information, though on the telephone lines into this here town to

picion by making a mystery for gos- "Sho! We made a clean getaway,

# More Economical Than Coffee

Better for Health and Costs Less

# Instant Postum

A table drink made "quick as a wink" by placing a spoonful in a cup, then adding hot water, and sugar and cream to taste.



"There's a Reason for POSTUM

Postum Cereal Company Battle Creek, Mich.

Sold by Grocers and General Stores

No Raise in Price

and we're plumb wore out. Our play isn't to hike out like we were scared stiff of something. What we want to do is to act as if we could look every darned citizen in the face. Mac's sure right," Curly agreed.

"You kids make me tired. As if you knew anything about it. I'm going to dust muy pronto," Blackwell said.

"Sure. Whenever you like. You go and we'll stay. Then everybody'll be satisfied. We got to split up anyhow," Mac said.

Bad Bill looked at Blackwell and nodded. "That's right. We don't all want to pull a blue streak. That would be a dead give away. Let the kids stay if they want to."

"So as they can round on us if they are nabbed," Blackwell sneered.

Cranston called him down roughly. "That'll be enough along that line, Lute. I don't stand for any more cracks like it."

Blackwell, not three months out from the penitentiary, faced the other with an ugly look in his eyes. He was always ready to quarrel, but he did not like to fight unless he had a sure thing. He knew Bad Bill was an ugly customer when he once got started.

"Didn't mean any harm," the ex-convict growled, "But I don't like this sticking around town. I tell you right now, I don't like it."

"Then I wouldn't stay if I were you," Curly suggested promptly. "Mac and I have got a different notion. So we'll tie to Saguache for a day or two."

As soon as the older men had gone the others tumbled into bed and fell asleep at once. Daylight was sifting in through the open window before their eyes opened. Somebody was pounding on the bedroom door, which probably accounted for Flandrau's dream that a sheriff was driving nails in the lid of a coffin containing one

Mac was already out of bed when his partner's feet hit the floor.

"What's up, Mac?"

The eyes of the redheaded puncher gleamed with excitement. His six-gun was in his hand. By the look of him he was about ready to whang loose through the door.

"Hold your horses, you chump," Curly sang out. "It's the hotel clerk. left a call with him."

But it was not the hotel clerk after Through the door came a quick, jerky voice.

"That you, Curly? For God's sake, let me in.'

Before he had got the words out the door was open. Slats came in and shut it behind him. He looked at Mac, the forty-five shaking in the boy's hand and he looked at Flandrau.

"They're after you," he said, breathing fast as if he had been running.

'Who?" fired Curly back at him. "The Bar Double M Boys. They just reached town."

"Put up that gun, Mac, and move into your clothes immediate," ordered Curly. Then to Davis: "Go on. Unload the rest. What do they know?"

They inquired for you and your friend here down at the Legal Tender. The other members of your party they could only guess at."

"Have we got a chance to make a getaway?" Mac asked.

Davis nodded. "Slide out across the kitchen, cut into the alley, and across lots to the corral. We'll lock the door and I'll hold them here as long as I can."

"Good boy, Slats. If there's a necktie party you'll get the first bid," Curly grinned.

Slats looked at him, cold and steady Plainer than words he was telling his former friend that he would not joke with a horse thief. For the sake of old times he would save him if he could, but he would call any bluffs about the whole thing being a lark.

Curly's eyes fell away. It came to (Continued on following page).



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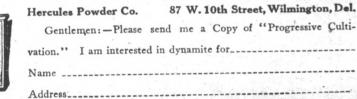


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# Crooked Trails and Straight (Continued from preceding page).

longer an honest man. Up till this es- "She's certainly a right nice young he had crossed the line that separates right. Where's she live at?"

from the disgrace of it.

Not another word was said while Why, we'd a been ready by Christmas they hurried into their clothes. But if I'd only waited." you done for us, Slats."

speak, but the chill look on his face a price was already on his head.

Nobody was in sight except the negro Myra Anderson." janitor of a saloon busy putting empty bottles into a barrel.

air," Curly cautioned.

dled they swapped gossip with the to know it. wrangler. It would not do to leave the boy with a story of two riders in such a hurry to hit the trail that they could not wait to feed their bronchos. So on a hook. One of them was at the ing closer to them. door all the time to make sure the way was still clear. At that they shaved it fine, for as they rode away two men were coming down the street.

"Kite Bonfils," Curly called to his

No explanation was needed. Bon- gone to get the horses. fils was the foreman of the Bar Double ward. Simultaneously his gun seemed to jump from its holster.

zipped between them. Another struck was in his hand. the dust at their heels. Faintly there for the time.

as they headed into the desert. ..

with a grin.

Neither of them had ever been in come so near home. serious trouble before and both regret-

to grunt out jerkily a situation he Softly Flandrau put the head back could no longer keep to himself.

pers I reckon. No rustlers need ap- his hand. The attackers had stopped ply."

'Meaning—the girl?"

know about it?"

He took from his coat pocket a pho-

him for the first time that he was no girl smiled at Curly.

capade he had been only wild, but now lady. I'll bet she stands by you all

decent folks from outlaws. He had "Waits in a restaurant at Tombbeen excited with liquor when he join- stone. We was going to be married ed in this fool enterprise, but that soon as we saved five hundred dol-made no difference now. He was a lars." Mac swallowed hard. "And I rustler, a horse thief. If he lived a had to figure out this short cut to the hundred years he could never get away money whilst I was drunk. As if she would look at money made that way.

as Curly passed out of the door he call- Curly tried to cheer him up, but did ed back huskily. "Won't forget what not make much of a job of it. The indisputable facts were that Mac was an Again their-eyes met. Davis did not outlaw and a horse thief. Very likely

told Flandrau that he had lost a friend. The redheaded boy rolled another The two young men ran down the cigarette despondently. "Sho! I've back stairs, passed through the kitch- cooked my goose. She'll not look at en where a Chinese cook was getting me-even if they don't send me to the breakfast, and out into the bright sun- pen." In a moment he added huskily, light. Before they cut across to the staring into the deepening darkness: corral their eyes searched for enemies. And she's the best ever. Her name's

Abruptly Mac got up and disappeared in the night, muttering something "Won't do to be in any hurry. The about looking after the horses. His play is we're gentlemen of leisure, just partner understood well enough what out for an amble to get the morning was the matter. The redheaded puncher was in a stress of emotion, and like While they fed, watered, and sad the boy he was he did not want Curly

Flandrau pretended to be asleep when Mac returned half an hour later. They slept under a live oak with the soundness of healthy youth. For the they stuck it out while the animals time they forgot their troubles. Neithate, though they were about as con- er of them knew that as the hours tented as a two-pound rainbow-trout slipped away red tragedy was gallop-

> CHAPTER II. Camping with Old Man Trouble.

HE sun was shining in his face when Curly wakened. He sat up and rubbed his eyes. Mac was nowhere in sight. Probably he had

A sound broke the stillness of the He let out a shout as he caught desert. It might have been the explosight of them and began to run for- sion of a giant firecracker, but Flandrau knew it was nothing so harmless. He leaped to his feet, and at the same Mac's quirt sang and his pony leap- instant Mac came running over the ed to a canter in two strides. A bullet brow of the hill. A smoking revolver

From behind the hill a gun cracked came to the fugitives the sound of the then a second—and a third. Mac stumforeman's curses. They had escaped bled over his feet and pitched forward full length on the ground. His friend Presently they passed the last barb ran toward him, forgetting the revolwire fence and open country lay be ver that lay in its holster under the fore them. It did not greatly matter live oak. Every moment he expected which direction they followed, so long to see Mac jump up, but the figure stretched beside the cholla never mov-"What we're looking for is a country ed. Flandrau felt the muscles round filled with absentees," Curly explained his heart tighten. He had seen sudden death before, but never had it

A bullet sent up a spurt of dust in ted the folly that had turned their front of him, another just on the left. drunken spree into a crime. Once or Riders were making a half circle round twice they came to the edge of a quar- the knoll and closing in on him. In his rel, for Mack was ready to lay the right mind Curly would have been very blame on his companion. Moreover, properly frightened. Now he thought he had reasons why the thing he had only of Mac lying there so still in the done loomed up as a heinous offense, sand. Right into the fire zone he ran. His reasons came out before the knelt beside his partner, and lifted the camp fire on Dry Sandy that evening red-thatched head. A little hole show-They were stretched in front of it try- ed back of the left ear and another at ing to make a smoke serve instead of the right temple. A bullet had plowed supper. Mac broke a gloomy silence through the boy's skull.

in the sand and rose to his feet. The "Here's where I get my walking pa. revolver of the dead puncher was in shooting, but when they saw him rise Curly shot a slant glance at him, a rifle puffed once more. The riders were closing in on him now. The near-The redheaded puncher nodded. "She est called to him to surrender. Almost will throw me down sure. And why at the same time a red hot pain shot shouldn't she? I tell you I've ruined through the left arm of the trapped my life. You're only a kid. What you rustler. Someone had nipped him from the rear.

Curly saw red. Surrender nothing. tograph and showed it to his friend. He would go down fighting. As fast The sweet clean face of a wholesome as he could blaze he emptied Mac's

gun. When the smoke cleared the man who had ordered him to give up was slipping from his horse. Curly was surprised, but he knew he must have hit him by chance.

"We got him. His gun's empty." someone shouted.

Cautiously they closed in, keeping him covered all the time. Of a sudden the plain tilted up to meet the sky. Flandrau felt himself swaying on his feet. Everything went black. The boy had fainted.

When he came to himself strange faces were all around him, and there were no bodies to go with them. They seemed to float about in an odd casual sort of way. Then things cleared.

"He's coming to all right," one said. "Good. I'd hate to have him cheat the rope," another cried with an oath "That's right. How is Cullison?"

This was said to another who had just come up. "Hard hit. Looks about all in. Got

him in the side." The rage had died out of Curly. In a flash he saw all that had come of their drunken spree; the rustling of the Bar Double M stock, the discovery, the death of his friend and maybe of Cullison, the certain punishment that would follow. He was a horse thief caught almost in the act. Perhaps he was a murderer too. And the whole thing had been entirely unpremeditated.

Flandrau made a movement to rise and they jerked him to his feet.

"You've played hell," one of the men told the boy.

He was a sawed-off little fellow known as Dutch. Flandrau had seen him in the Map of Texas country a year or two before. The rest were strangers to the boy. All of them looked at him out of hard hostile eyes. He was scarcely a human being to them; rather a wolf to be stamped out of exsitence as soon as it was convenient. A chill ran down Curly's spine. He felt as if someone were walking on his

At a shift in the group Flandrau's eyes fell on his friend lying in the sand with his face turned whitely to the sky he would never see again. It came over him strangely enough how Mac used to break into a little chuckling laugh when he was amused. He had quit laughing now for good and all. A lump came into the boy's throat and he had to work it down before he

"There a picture in his poc. et, and some letters I reckon. Send them to Miss Myran Anderson, Tombstone, in care of one of the restaurants. I don't know which one."

"Send nothin"," sneered Dutch, and coupled it with a remark no decent man makes of a woman on a guess.

Because of Mac lying there with the little hole in his temple Curly boiled over. With a jerk his right arm was free. It shot out like a pile-driver, all his weight behind the blow. Dutch went down as if a charging bull had flung him.

Almost simultaneously Curly hit the sand hard. Before he could stir three men were straddled over his anatomy; One of them ground his head into the dust.

"You would, eh? We'll see about that. Jake, bring yore rope."

They tied the hands of the hauled him to his feet, and set him astride a horse. In the distance a windmill of the Circle C ranch was shining in the morning sun. Toward the group of buildings clustered round this two of his captors started with Flandrau. A third was already galloping toward the ranch house to telephone for a doctor.

(Continued next week).



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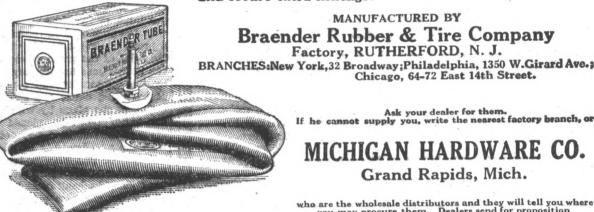
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# Purebreds via the Boys' Club

(Continued from page 479).

ing grade and pure-bred calves was that without exception they are all grades while the other used pure-bred club work. calves. The calves were drawn by lot The Caledonia Junior Breeders' Asand were cared for much the same sociation is a good Illinois example of persal sale was held in the fall the ganized in a community where a large before the pure-breds. The grade were prevalent this club promises to calves averaged \$65 per head and the unite the community on a one-breed The registered calves had cost the the efforts of the county agricultural per head, or in other words, the boys eraging above five hundred pounds with the pure-bred calves had received were purchased in Waukesha county, a profit of almost double the full sell- Wisconsin, at an average cost of a liting price of the grade calves. The les- tle over one hundred and fifty dollars. by the community and several herds insurance carried by the bank, and in of pure-bred cattle are being started, case one of the heifers should die,

enough to dispose of to cover the cost from the beans. of keeping up boar stock for the club.

brought out in the work done by the planning to return to the farm better boys of the state of Illinois. Two banks equipped for actual farm work, and decided to promote the work of the with a saner view of the possibilities calf clubs but one of them sought to of farming and rural life and a knowluse only the more moderate priced edge of cooperation gained through pig

throughout the summer. When the dis- the well organized dairy calf club. Orgrade calves were sold about a week number of breeds and cross-breeds sale was thought to be quite a success. basis. Eleven boys organized through boys on the average \$117. The aver- agent and the help of the bank. Elevage selling price, however, was \$235 en pure-bred Guernseys from dams avson in this case has already been seen The boys have their own cooperative One of the plans by which stock of through no fault of the boys, a new the better type is placed with the one would be purchased and the cost clubs is the endless chain method used prorated on the notes of the boys held with the pure-bred pig clubs. A good by the bank. The interest taken in example of this plan is furnished by this project, both by the adults and the Albion, (Michigan), Duroc-Jersey the boys, promises much for the future pig club. The bank furnished the mon- live stock solidarity of the community. ey for the purchase price of the pigs Already two adult Guernsey bull asand Duroc-Jerseys were selected by sociations have been formed. The very the boys. A contract was drawn up name "Caledonia Junior Breeders' Asby which each boy was to return to sociation" is significant of the future the bank one sow pig from each of the boys are building for themselves the first two litters. After returning and their community. They hold their the second pig his contract was fulfill- meetings biweekly and study calf feeded and the original sow and all other ing, pedigrees and all subjects related increase were to belong to him. The to dairy husbandry. The club has albank was to take the young pigs re-ready formed a bean club for next turned and give them out on the same year in order that they may pay part basis to other boys, reserving only of their note this fall with the money

Another successful calf club is the This Albion Duroc-Jersey club is start- "Young America Calf Club," of Carson ing on its third year and it has been a City, Michigan. Eighteen boys and success. The seven boys first organ- girls were enrolled in this club early ized are now all in high school except in 1917. The club chose pure-bred one, and he is a freshman in Albion Shorthorns as their breed and started College. These boys, when they came work. This club meets every month in from the country to the city high for the purpose of study and inspiraschool were not weaned away from tion. Their work during the summer their farm homes, but have, through was featured by several educational their weekly club meetings, been able trips around the county, visiting good to keep and broaden their outlook on examples of farming practice and farming and rural life with the result looking over each other's Shorthorns.



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Much credit for their success is due to the banker, Mr. Stebbins, who is also acting as the local leader for the club.

These clubs differ somewhat from the first live stock work for boys and girls which was more in the nature of a contest. The present plan looks to the future interests of the community, both as to live stock and to the citizenship of the rural community. Many of the first attempts at this work were more or less temporary in their results. A large number of calves would be brought in and distributed among the boys and girls in the spring. These would have very little, if any supervision, and would be called in for a sale in the fall by the bank. The young stock would then all be sold off, the banks paid and not a great amount of permanent good would result.

The present plan of feeding and growing out the young stock the first year, and the second year start with a breeding project, followed the third year with a herd project, a sow and litter project or the like, has more of value in it. It tends to permanency since the boys become interested in stock production, and the social features of the club meetings build up a community life that is doing much to show boys and girls the worth while side of farming and rural life.

One of the newer clubs which is gaining widespread popularity this year is the sheep club. Each boy in the sheep club purchases three or more bred ewes, giving the bank a two-year note for the purchase price of the sheep. This gives the boys the chance to make payments from the sale of wool, the sale of wether lambs, and thus by keeping the ewe lambs, build up a nice little flock for himself without disposing of his original sheep.

One of the most successful sheep clubs is the "More Wool, More Mutton Sheep Club," of Traverse City, Mich. This club has thirty members, each taking care of three ewes and their offspring. These sheep clubs are doing much to renew the interest in sheep husbandry.

Pure-breds are coming into their own, and while the progress in this line has been, for the most part, gradual, it is none the less sure. The purebred calf club, sheep club or pig club is playing a large part in popularizing the pure-bred idea. The plan makes it possible, through the assistance of the banks, for the work to be started in a gradual way in many cases where pure-breds would otherwise be out of the question. Pure-bred stock clubs are pointing the way, but more and better than that, they are building up in our communities a class of farmers trained to cooperative organization and a class that has seen the value of cooperation. They are building up communities that, through training, are better fitted to care for live stock, and communities that will have the advantage of one standard breed. Most of all, however, these communities will be such that they will not only find for themselves the benefits of that newer organized type of farm life, but they will continue to point the way.

# THE SCOTCH OF IT.

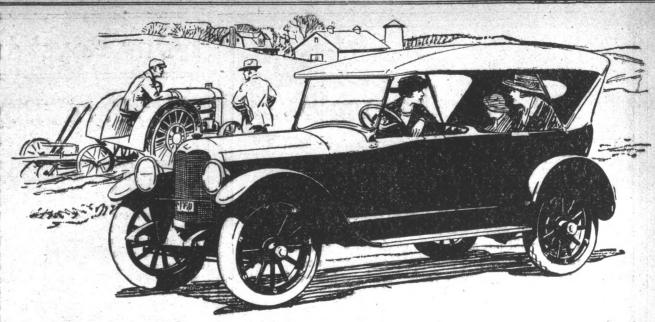
Two old Scotsmen sat by the roadside, talking and puffing away merrily at their pipes.

"There's no muckle pleasure in smokin', Sandy," said Donald.

"Hoo dae ye mak' that oot?" questioned Sandy.

"Weel," said Donald, "ye see, if ye're smokin' yer ain bacca ye're thinkin' o' the awfu' expense, an' if ye're smokin' some ither body's, yer pipes rammin't sae tight it winna draw.'





# Quality!

The price of every Paige car is established by the cost of high grade manufacturing materials and expert workmanship.

These two factors are the essentials in any fine product. To compromise on either one of them means to lower the standard of manufacturing-and that is precisely what this company never has done and never will do.

We do not make cheap cars for the simple reason that we have no faith in cheap materials or cheap workmanship.

As we have said repeatedly, we believe that Pride and Self Respect have an actual market value, so we build these qualities into every Paige that leaves our plant.

With such a policy there can be only one result. Our cars go into service with an honest heritage and a limitless capacity for hard, gruelling work

They endure because they are fit to endure. They prove, day by day, that they are worthy of our complete confidence and every penny that has been invested in them.

## PAIGE-DETROIT MOTOR CAR COMPANY, DETROIT

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# Read what a trapper writes: the highest price Sol Warenoff & Co., Inc., 156 West 25th Street, New York City

# More Cash

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Co-operative Raw Fur Company

And get more cash for your Raw Furs. This the big year—the opportunity to make big money trapping. Ship to a responsible house that

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More than you can get from any other house in America. Years of satisfactory service to trappers have made us the foremost fur exchange.

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Write at once. Get on our list and keep up-to-date on latest prices,—prices that enable you to make the most money. Send name at once. A postal card will do.

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Michigan Farmer ......\$1.00 McCall's Magazine ..... 1.00 Regular price, one year.....\$2.00

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Michigan Farmer 

# Regular Price, one year......\$1.80

**OUR PRICE ONLY \$1.50** 

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Michigan Farmer, 1 yr., wk.....\$1.00 Boys' World or Girls' Comp., mo. . . 50

OUR PRICE ONLY \$1.60

No. 8.

Michigan Farmer, 1 yr., wk.....\$1.00 Breeders' Gazette, wk...... 1.50 American Boy, mo...... 2.00

Regular price ......\$5.00 OUR PRICE ONLY \$3.90

No. 9.

Michigan Farmer, 1 yr., wk.....\$1.00 American Fruit Grower, mo..... 1.00 American Bee Journal, mo..... 1.00 Regular price, one year.....\$2.50

# OUR PRICE ONLY \$2.00

No. 10. Michigan Farmer, 1 yr., wk.....\$1.00 Youth's Companion, wk..... 2.50 McCall's Magazine, mo..... 1.00 Regular price, one year.....\$5.00

### OUR PRICE ONLY \$3.90

# Salesmen Wanted

We pay salary to good subscription getters, who can devote their entire time to our work. The offer our salaried men handle is especially Regular price, one year ..... \$2.00 attractive to farmers.

The Michigan Farmer

# Where go lbs.=100 lbs.

GROUND grain weighing 90 pounds has been found by actual test to do the work of 100 pounds of unground feed. Think what this means in added profits on your farm!

A Fairbanks-Morse "G" Feed Grinder will help you to put your cattle and horses in prime condition—will put all of your stock on a balanced ration. Makes fine fattening foods-grinds corn, oats, barley for poultry feeds—produces fine meal for calves, lambs, pigs, cattle and horses.

¶ Quality built "G" Feed Grinders are money-makers. See them at your dealer; arrange to put one at work on your farm and watch the results that follow.







Horse or Cow hide. Calf or other skins with hair or fur on, and make them into coats (for men and women), robes, rugs or gloves when so ordered. Your surgoods will cost you less than to buy them and be worth more.

Our illustrated catalog gives a lot of and care for hides; how and when we pay the freight both ways; about our safe dyeing process on cow and horse hide, calf and other skins; about the fur goods and game trophies we sell, taxidermy, etc.

Then we have recently got out another we call our fashion plates of muffs, with prices; also fur garments, with prices; also fur garments remedied and repaired.

You can have either book by sending your correct address naming which, or both books it you need both. Address.

The Crosby Frisian Fur Company, 571 Lyell Ave... Rochester, N. Y

When Writing to Advertisers, Please say "I Saw Your Ad. in The Michigan

# Why We Pay More

If you want the most cash for your furs—in the quickest time—write us at once. We need all the Skunk, Muskrat, Opossum, Raccoon, Fox, Bear, Beaver, Lynx, Marten and Mink furs you can ship, and will pay spot cash same day shipment is received.

**Highest Market Price** 

Our high prices, fair and honest grad-ings, prompt returns and fair dealing is proven by our thousands of satisfied shippers everywhere.

One of the biggest trapping seasons known is here. Furs are in amazing demand all over, so don't be satisfied with ordinary prices. Ship direct to Geo. I. Fox. Practically all furs eventually reach the New York Market and we can therefore pay you higher prices by buying direct from you.

# You Get All Your Money

No deduction for handling—no commission charge. On all shipments over \$75 we pay you 5% extra above quoted prices. Don't ship a dollar's worth of furs to any one until you compare our latest special price list and advance information, free on request, with free ship-YORK ping tags and Trappers Guide.

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ST. JOSEPH HIDE & FUR COMPANY 108P N. 2nd Street, St. Joseph, Mo.

# Our Boys' and Girls' Page

# The Farm Boy and His Books

By C. A. Spaulding

many of them are not worthy of those who have a chance to read them.

a particular desire to read a certain the developing boy. type of literature, mostly prohibited

graphies of our great men, to see the getting up subscription lists to these part played in their lives by the print- publications in his neighborhood. ed page. Some boys, of course, read to the point where they desire to read. reflected in his life.

An effort should be made to master and remember the things read. It is a very harmful practice from a psychological standpoint to read a great amount without remembering it, simply to read for the passing away of time. I have known people to get into of life in the home. the habit of reading book after book of fiction without attempting to re- conditions. member the material read, and without exception, it reacted unfavorably Christian practice of tithing. upon their memories. The habit of The club members are divided into complished by parents and teachers, Bureau. at that age. he things he likes love of reading.

for history, and will instill in him a for all Michigan will be here. Nicholas," "The Youth's Companion," way being provided whereby rural

VERY rural school now has its "The American Boy," and others of School library, though a great a like character have much to offer

that name. Much depends upon the Every boy has his heroes and if teacher and the school board at the these can be selected, as it were, for time the library is built up, as to what him, the influence exerted upon him is type of books find their way into the bound to be great. It is of much greathomes of the students. Some libraries er importance that a boy should have are composed of nothing but the trash- an opportunity to read some of the iest kind of fiction. Others are made simply written lives of Lincoln or up of books that are over the heads of Washington or Hamilton, or Roosevelt, the ordinary rural school pupils, while than to have simply the fly-spotted picothers, under the direction of the far- tures gaze at him from the school room sighted teacher, are well-balanced lib- wall day after day. No boy should raries in the best sense of the term. grow up without reading the lives of If parents, as well as the teacher, many of these great men. Every boy could but stop for a moment and real-should have a chance sooner or later, ize the far-reaching effect on the life to read, "George Washington-Farmer," of the boy of the books he reads in "The Winning of the West," by Rooseyouth and early adolescence, much velt, "Abraham Lincoln-Boy and more time would be taken in the build-Man," and books of this character. To ing up of the school library and consid- these may be added many of Thoreau, erable more study would be given to Whitman, Scott, Cooper and other great American and English writers. Many boys, of their own accord, do It is impossible to estimate the farnot naturally like to read. Others have reaching effects of such reading upon

Such books and magazines as have by teachers and parents, such as the been mentioned should be found eith-"Wild West," "Nick Carter," "Dia- er in the home or the school library, mond Dick," and other adventurous but if they are not to be found there, tales. A great field of influence is op- they can nearly always be found at the ened up to teachers and parents when nearest city library. Besides the readthey stop to consider that the normal ing of such books, the farm boy should boy must have his heroes, and must be encouraged to build up a library of in certain phases, pattern his daily life his own. If he is interested in farming, he can always obtain books and By careful methods, it is possible to bulletins from the United States Deteach every boy to like to read, and partment of Agriculture, and the varionce taught to enjoy reading, it is but ous State Colleges of Agriculture that a step to teach him to read the right will interest him. He can obtain subkind of books and magazines. You scriptions to papers and magazines have only to read the histories or bio. that contain special boy sections by

If he is especially interested in too much and must be encouraged to scientific things, he can in the same get outside more and take a part in manner satisfy his desires along this athletic games and other exercises line. The farm boy's reading should that build up the boy physically. Oth- receive the earnest attention of his ers have to be brought most carefully parents and his teachers, for it will be

### THE TASK OF THE RURAL CHURCH.

(Continued from first page). 5. Something to raise the standards

6. Something to improve community

Something to encourage

skimming over a book in two or three seven activity groups, the aim being hours is a bad one, for it does not to have about the same number in teach one to retain. If a boy can be each group. Each division is specially taught to read and to retain what he charged with the task of doing the reads, a great forward step has been work assigned to that division. These made in the education of that boy. It clubs cooperate with the state by beis my contention that this can be ac- coming members of the County Farm

if they use the right methods. We Not every preacher is qualified to must bear in mind the age of the boy operate one of these clubs. The work requires wise leadership and special Then by using the best books and mag- training. Not all the clubs organized azines that contain material of inter- have done good work. In no instance est to such a boy, it is possible in al- has the fault been with the club, nor most every case, to cultivate a deep is there evidence that the organization was not needed. Failure may grow out It is not my purpose to give any of community conditions. It may be great number of books or papers that due to poor leadership. In the hands may be used, but it may be well to of an urban-minded preacher the club mention some of them. There are is sure to fail. When we get enough many so-called historical novels, for in- preachers to operate Community Betstance, that will give a boy a liking terment Clubs successfully a new era

deep love of country. Many magazines Another phase of the work now planmake a study of boy life and cater to ning that promises well for the future his tastes. Such magazines as "St. of our rural life is found in the new

minded and efficient preachers may secure deserved promotion without heading straight for a city pulpit. When this plan becomes fully operative preachers can look forward to a rural ministry and feel that positions of trust and commanding influence may be theirs.

To those who have a statesmanlike vision and grasp of the rural problem this program is sound and full of

(We are able to publish Dr. Diehl's scholarly production through the court-esy of the Michigan Christian Advo-

### CASING PELTS FOR PROFIT.

T is one thing to catch an animal and another to skin it and care for the pelt in such a way that it will bring top price. One tainted spot on a pelt means a damaged fur and reduces its value materially. A little care often adds \$5 to a \$10 shipment.

The trap line should be run each day so the furs will not spoil in the water. Always knock or shoot the game in the head. If the animals are frozen do not put them in an oven or hold them over a fire, just put them in a bucket of cold water and leave them there ten or fifteen minutes, being sure the water is not left where it will freeze.

When skinning an animal use a good sharp knife. Always make long strokes and then the skin will not be ragged.

Skunk, muskrat, 'possum, mink, otter, weasel and cat hides should be cased with the flesh side out. Fox and wolf hides should be cased with the flesh side out and dried for a few days and then they should be turned and dried thoroughly with the fur side out. Raccoon, badger, beaver and bear hides should be taken off open. The bone should be removed from the tail of skunk, coon and ringtail cats. And don't forget to scrape the fat from all pelts, being careful not to go so deep as to injure the roots of the hair.

Muskrat hides should be cased on boards fifteen to sixteen inches long and four to five inches in width Mink hides should be cased on boards twenty-two to twenty-eight and a half inches long and three to four and onehalf inches wide. Skunk and 'possum hides should be cased on boards twenty-six to twenty-eight and a half inches long, and from six to nine and a half

fur side to fur side in the bundle facing hides of a size together.

E. W. G.

TODAY'S RIDDLE





long, and from six to nine and a half inches wide. Fox hides should be cased on boards forty-five to sixty inches long and fourteen inches wide. All stretcher boards should be about one-half an inch thick and should be well planed, so no splinters can damage the hides.

Don't dry any skins by a fire or in an oven. It ruins them. Always dry in a cool, dry, shady place and never expose them to the sun. On the north side of a building is a good place to hang them.

Tie all bundles for shipment with strong cord—not with wire, placing

prices will make other years look like 30 cents

The 1919 Pfaelzer prices, liberal assortments and quick money will take you off your feet. They will open your eyes. They will establish a record, for we must satisfy the tremendous demand for Raw Furs and we must have them quick. Therefore, hurry your first 1919 shipment to the House of Pfaelzer. Write for the Pfaelzer price list, but ship anyway. The House of Pfaelzer will let you run no risk. The Pfaelzer guarantee of top prices and liberal grading is your absolute protection. New York is the world's fur headquarters and the House of Pfaelzer is New York's leader in boosting Prices for Raw Furs.

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New York

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LARN how easily you can have a beautiful, completely equipped bathroom with white enameled washstand, bathtub and closet; an efficiency kitchen with a large one-piece sink, and a work-saving laundry with handy stationary tubs.

This book shows a choice line of

# "Standard Plumbing Fixtures

especially adapted for farm homes. Illustrated in four colors. Shows beautiful bathroom, kitchen and laundry scenes, as well as a variety of fixtures at a wide range of prices.

Send for a copy. You will find it a big help in getting the ideal fixtures for your home.

Standard Sanitary Mig. Co. Pittsburgh

Also ask about "Standard" Farm Lighting Plants and Water Supply Systems.

PETROLEUM JELLY

An invaluable antiseptic for sprains, sores, blisters and bruises. Keep a bottle always handy.

For sale at drug and general stores everywhere—10c.

Booklet containing valuable advice

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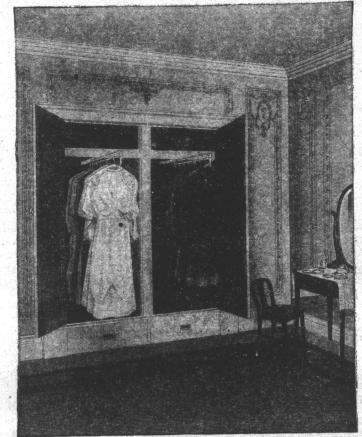
Please Mention The Michigan Farmer When Writing to Advertisers.

# Woman's Interests

# The Twentieth Century Closet

er goes through it every day and hangs ets looking right for \$1.20! the clothes on the individual owner's The carrier, which works on exactly

sale, with father's trousers draped other one and then thoughtfully piled without pressing. gracefully over the hook which holds five or six garments on top of it. You Added to the saving of your time mother's best silk dress and Susie's have wished someone would get up a and the wear on your clothes, the new and Johnnie's garments piled indis-small garment carrier that folks could closet will actually save you dollars criminately on the same peg or tossed use at home. And they have. Best of carelessly on the floor among the fam- all, let me break it gently to you, they ily collection of shoes? My experience are cheap. You can positively buy one of the average farm house has been that will hold twelve garments, for sixthat there was no closet at all, or at ty cents. Two of them would hold all best but one or two small ones which the clothes the family owns jointly. absolutely would not stay tidy. Moth- Think of being able to keep your clos-



Two-apartment, Built-in Wardrobe Equipped with Garment Racks which are Easily Drawn Out into the Room.

et is worse than the first.

then they'll hang up their clothes, or bedding stored there. don't. For they won't hang them up. If you have no closet the extension save as much space and as many steps. the extra space in your bedrooms.

everything off every hook looking for of any garment, and it is certainly things, and even that little would help.

hook, but when the family gets in its the same principle as the store car-If you have a closet I'm going to tell different depth. They can be bought more. Figure for yourself how much you the best way yet invented to keep as short as twelve inches or as long the cost of building has gone up in ten it "picked up." If you have a small as five feet. The idea is to fasten years and you have a pretty good estione I'm going to show you how to them into the closet in the doorway, mate of how much you save by elimimake it seem larger and utilize all the so that they may be drawn out into nating that extra closet space. Probspace, and if you have none at all this the room, as shown in the illustration. ably \$800 or \$900 would be nearer the will show you the way to remodel your The space beneath may still be utiliz- present figure, and your whole house room and get an equivalent for the ed for shoes and rubbers, and if there could be equipped with the carrier and closet. If you are planning on build- is a shelf at the end of the closet you hangers in every closet for around \$15. ing with a great big roomy closet in can easily pass behind the garments. When you build, plan for conveneach chamber, under the delusion that when the carrier is out and reach hats ience. Study plans and other people's

Instead use this new idea for closets carrier makes the built-in wardrobe as possible. The farm women, more and save yourself the money needed practical and convenient. The ward- than any others, need all the labor to allow for large closet space, or put robe may be built like the closet saving conveniences known to man, shown, with shelves above for hats, They are absolutely without help and You've been in stores looking for a and drawers at the bottom. This new their only salvation lies in making new suit, and you've seen the clerk type of closet is being built into most their work as easy as possible. The take hold of a garment carrier and modern homes. As you see, it is in garment carrier ought to help in that pull it easily out from a wall case, dis- two sections so that the two persons almost impossible task of teaching the closing to your longing eyes all the occupying the room may keep their children to hang up their clothes. If newest temptations in browns and garments in their own locker. It is a handy little hanger is right at hand, taupes and navies. And you've taken but a moment's work to pull out the does it seem possible they will contime from thinking of your suit to wish carrier, and every garment is instantly tinue to leave everything thrown about to goodness you had some such a con- in sight, hung as it should be on a gar- on beds and chairs, or, more likely, the trivance in your closet to hang things ment hanger instead of by the neck or floor? At least until the novelty wears on. Then you wouldn't need to take shoulder. Good care doubles the life off, the youngsters will hang up their



HAVE you a little closet in your your house dress that you knew you much better to hang up dresses or home? Or for the matter of that hung just inside the door. And you coats on a hanger. Unnecessary creashave you a big one? And does it did, but someone else wanted that es and wrinkles are avoided and the look like the beginnings of a rummage hook, so they hung your dress on an garment can be worn much oftener



This Handy Device Saves Time in Searching for a Particular Garment.

and cents if you are building. Many farm homes will be built during the next year. The war has kept the new home back for two or three years, but now it is to be built. It is going to cost a lot of money, a great deal more than it should, most of us think. We want as large and as fine a house as we can get and we don't want to go into bankruptcy to get it. Here is one way of making the house smaller and yet more convenient than the house with larger closets would be.

The average closet is at least three feet deep. With the garment carrier and two apartment closet you could easily cut that down to two feet. In the modern house the closet space for adjoining bedrooms comes out of the same wall, so you thus save one foot of space in each room, or two feet on the depth of your house. I do not know what it costs to build this extra foot today. Ten years ago when we built a two-story brick and shingle eight-room house, the contractor asked \$150 for each extra foot of depth. For example, the house was twentydeadly work the last state of that clos- riers with which everyone is familiar four feet deep. Had it been twentycomes in varying sizes to fit closets of six feet deep it would have cost \$300

houses first, and then build yours to



# Simple Fabric Tests

part of every girl's education. It silk cuts. has always been desirable for women Finally hold the cloth to the light. to know what they are buying, but This will show up imperfections in the essity. What is more disheartening can see it between the threads.

and apply.

Perhaps the best known one is rubbing opaque, or impervious to light. between the hands. Linen rubbed beis a pretty safe buy.

help in a way to determine its kind as dipping the sample in warm acetic linen has a luster and cotton and wool acid and drying without rinsing beare dull. But as cotton is often mer- tween blotting papers. Linen feels cool and leathery to the place it between weights, or inside a touch; cotton feels warm; wool, warm book. If it is shoddy it will wear bare and soft, and silk warm and slippery. on the folds and edges. The pretty torn leave strong, straight, uneven ed on. Pressing will scorch the design. ends, more lustrous than cotton. This These tests are all so simple that part or all cotton.

HOW to know materials—cotton, ant, cotton crushes and becomes soft, linen, wool, silk—should be a linen remains smooth and strong, and

with the present exorbitant prices for weave, or looseness. If the fabric is fabrics it has become an absolute nee- filled with starch or other sizing you

than to pay a fancy price for a piece If you have time to take a sample of cloth which you are told is linen, home the burning test is easy and reand to find after it has been washed liable. Cotton burns up quickly into a that you have bought nothing but mer flame and leaves no ash. Linen burns cerized cotton? Or to buy a garment something like cotton, but does not advertised as pure wool and have it flame up so quickly. Wool burns slowshow up as shoddy after it has been ly, chars and gives off an animal odor. worn a few times? There are a few Silk burns slowly and leaves a little simple rules for determining what you ash. If it is adulterated with tin the are buying which any woman can learn ashes will remain in the shape of the original sample.

If possible get a sample of the goods If you are testing linen place a few and take it home with you. Test thor- drops of olive oil on the fabric. If it oughly and make your purchase later. is linen it becomes translucent, that is, If you must test it in the store there it allows the passage of light through are a few simple tests you may try. the spot. If it is cotton, it becomes

To decide if the cloth will stand tween the hands will remain smooth, laundering and sunlight, wash in soap cotton will show a rough surface, and and water and expose to the sun. To sizing, that is starch, gum, tin, clay, decide if it will "crock" rub the coloretc., which are often added to give ed cloth on a piece of white cloth. If body and weight to the fabric, will the color comes off the dye is poor. To show up as dust. If shoddy has been decide if it will stand general wear added to wool it will rub out. If a cover half of the piece and place it in piece of cloth springs out into shape the window for two weeks. If general after rubbing, leaving no wrinkles, it wear will fade it the uncovered half will be faded in this time. Fastness The appearance of the cloth will of color to perspiration is shown by

When cotton is torn the ends are even, embroidered cottons you buy somecurled, tufted and fuzzy. Linen threads times have the dots and patterns print-

will help you decide if your linen is even a school girl could learn to apply them. Do not run the risk of being Biting the fabric is a test seldom cheated when you can learn to decide employed. Wool is gritty and unpleas- for yourself so easily.-M. A. L.

# Oil and Paint Screens

By Mrs. E. O. Swope

GREAT care should be taken of many seasons.

Window screens, as they represent The screens should not be stored the way I used to do it, but I have not easily rust. found it a poor method and a costly It is best to oil the screens with a each season are carefully painted over this method the screens are evenly the woodwork or metal parts as the covered, and too much oil will not get fully oiled with linseed oil. By this brush were used for the purpose. Too method I have been able to make the much oil would soil curtains or drapscreens last many seasons.

is important if we want them to last years' time.

quite an item of expense, especially away in any old place in order to get when many large ones have to be us- them out of the way. It is best to pack When the season is over for us- them all together and cover them up ing the screens, I take a sort of inven-nicely somewhere in the house where tory of them, discarding those that it is dry and clean. If covered with are completely worn out. It is not cloth or paper they do not become so enough to merely take an inventory of dusty and it is a small matter indeed the screens on hand at the end of the to get them ready for use next season. season and properly place them away If rubbed lightly with an oiled cloth, in some corner of the house where they are again ready for use, look they will not be in the way until want- bright and clean, and with an addied again next season. This is indeed tional touching up with oil, they will

one as well. All new screens bought cloth that is saturated in oil, as by case may be, and the screening is care- on them, as would be the case if a eries coming in contact with screen.

A good time to do this work is late Screens are a necessity in every in autumn when we will have no furth- home during the summer months. er use for the screens until next sea- They are also a great convenience and son. By painting and oiling them at make the house cool and attractive this time, the wood is preserved, will when properly cared for. The time look better when the screen is brought spent in caring for them is time profitout next season, and the oiling pre- ably employed and will save many dolvents the screens from rusting, which lars besides in the course of a few

# Hot water -A plenty!

Just dip the boiling hot water whenever you need it, from the all-copper reservoir on the side of your Majestie Range. Reservoir top is level with range top, giving extra space. Patented heat pocket of reservoir fits directly against fire box -and convenient shifting lever moves reservoir close to fire, or away, controlling temperature of water.

Perfect baking, too!

Air-tight oven, all joints riveted, economizes fuel and assures delightful baking results.

Large warming closets at top. Unbreakable malleable iron frame saves repairs. Pure charcoal iron body, best known rust-resisting material. Burnished cooking top requires no polish. Trimmings of smooth gleaming polish. Trimmings of smooth and nickel. Whole range so easy to keep clean and bright.

Door panels and splasher back in lustrous Blue Enamel or White Enamel finish, if desired.

The Majestic Range is made in many styles and sizes—every style the highest range value obtainable at its price. Majestic prices the same everywhere—freight considered. There is a Majestic dealer in

nearly every county in 42 states.



Range with a Reputation

There's more Nero consumed in Michigan than any other brand of coffee. Your grocer has it or can easily get it for you. Royal Valley Coffee Co.



# EGG-O-LATUM KEEPS EGGS

It costs only one cent per dozen eggs to use Egg-0-latum. There is no other expense. Eggs are kept in carton or box in cellar. Eggs may be boiled, poached or used in any other way, just like fresh eggs. Simply rubbed on the eggs—a dozen per minute. A 50c jar is sufficient for 50 dozen eggs. At Drug, Seed and Poultry Supply Stores or postpaid.

GEO. H. LEE CO. Dept. 265 OMAHA, NEB.

# FREE A Special Clubbing Bargain

Michigan Farmer ............\$1.00 Swine Breeders' Journal............50 Today's Housewife ...... 1.00 Regular price, one year.....\$2.50

**OUR PRICE ONLY \$1.85** 

Michigan Farmer ......\$1.00 People's Home Journal ...... 1.00 

Regular price, one year.....\$4.00

**OUR PRICE ONLY \$3.15** 



# Greatest underwear value in America at the price!

You can't get greater warmth or better workmanship or more comfort or more actual wear than every suit of Hanes winter weight underwear for Men and Boys surely will supply!

Hanes is made in winter weight Union Suits and Shirts and Drawers. Illustrated here is the staunchest, most comfortable, wear-resisting union suit ever sold at the price.

Hanes Union Suits have the most desirable and dependable featuresunbreakable seams; reinforced, non-stretching buttonholes that last the life of the garment; tailored collarette that cannot gap; shape holding elastic shoulders; elastic knit wrists and ankles; pearl buttons sewed on to stay. And, a closed crotch that stays closed!

Hanes Shirts and Drawers have the same desirable quality; perfect workmanship and features. Drawers have the durable, snug-fitting 3-button sateen waistband.

Union Suits for Boys in quality, cozy warmth and workmanship are unsurpassed at the price! Reinforced at all buttonhole and strain points. In fact they duplicate Hanes Union Suits for men, with added fleeciness. Made in sizes from 2 to 16 years. Two to four year sizes have the drop seat.

If your dealer cannot supply "Hanes" write us direct.

P. H. Hanes Knitting Co., Winston-Salem, N. C.

New York Office, 366 Broadway

Warning to the Trade—Any garment offered as Hanes is a substitute unless it bears the "Hanes" label.

# Speed, 25 Cows per Hour

This is the rate you can milk with a 3-unit Success Outfit. Many 12-year-old boys are doing it twice a day, saving the work of three men. For years the

# SUCCESS OPEN VALVE MILKER

has been giving steady, reliable service at low power and upkeep cost. It is simple, sanitary, easily installed, easily operated and easy to keep clean. Valve and teat cups are simplest and most durable made. No pulsators or

other complicated contrivances are used to secure a

vacuum. There is no big expensive vacuum tank, no pipe line to pay for and install.

For smooth, uniform action the Success Open Valve Milker is unsurpassed. Cows actually like it better than hand milking and give more milk.

Send for free book answering the 15 leading questions farmers and dairymen ask about milking machines.

ANDERSON SALES COMPANY

1035 Winnebago St.

Milwaukee, Wis.

BEST OF 4 MILKERS USED

Milking Machine installed at

Cedar Lawn Farm and have

believe that out of the four

different machines used on our

various farms the Success fills

the bill for simplicity and service, with honest cost. We are using it on young heifers as well as on 30 lb. cows.

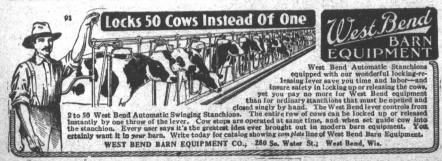
C. A. SCHROEDER & SONS,

West Bend, Wis.

found it very satisfactory.

We recently had a Success





# Please Mention this Paper When Writing to Our Advertisers

# Saving Sense in Buying Feed

price. The ways are myriad of fleec- or linseed meal. ing the dairy farmer who is content to Therefore the source of a protein or put \$100 worth of these feeds into his fat that the dairy farmer feeds his cows to get \$90 worth of milk. If the cows is not a matter of indifference. government would be as active in sup- He cannot buy a ton of mixed feed pressing bogus feeds that are on the containing so many pounds of protein market as it is in inspecting dairy and fat and be sure that the tables are farms and stamping out diseases of anything like the same, so far as the stock there would be a great improve- cow is concerned—as when he gets his ment in the quality of products as well given weight of protein and fat from as in cow health.

to the maximum of profitable produc- ufacturer. dairy farmers into buying feeds that rially in milk production. are actually harmful to cows.

Fats Differ in Feeding Value. fats. The ether extract of corn meal gether than when fed alone. and the ether extract of cottonseed

HE question of cheaper and yet in their nutritive value. Just as there better rations for dairy cows is are many kinds of proteins, there are receiving much attention at the many kinds of fats and oils. Then present time. Feeds have gone up to ether dissolves out of feeding stuffs the top in price, and worthless feeds some of the resins and out of grasses have advanced in price as well-weed the coloring matters, so that, for inseed, elevator sweepings, oat hulls, stance, the so-called fat of timothy hay grain smut, salt and molasses com- has very little feeding value and is not pounds sell with standard feeds in at all analagous to the fat of grains

some of the standard feedstuffs that The dairy farmer who has a herd of have not been put through various good cows that he wishes to hold up processes of manipulation by the man-

tion year after year, will find it neces- For the dairy farmer who grows sary to grow and harvest the best al- good crops of alfalfa or clover hay falfa, clover and silage crops for the and corn silage, cottonseed meal, lingreat roughage want, and when buy-seed oilmeal, gluten feed, distiller's ing feedstuffs choose concentrates rich grains and wheat by-products make up in protein, instead of products that the the purchased feeds which he should great manufacturing philanthropists ordinarily buy for his ration. A little have conserved in the interests of nat- corn meal may be used to advantage ural economy. Prices, attractive trade in almost any dairy ration, for there is names and bulk feed should not tempt something about corn that aids mate-

Digestible Nutrients Important. The bulk of these waste products is Enough has been said to make it made up principally of carbohydrates, clear that in purchasing feeds for which are already available in the dairy cows the dairy farmer should home-grown roughage. A fairly well have a better knowledge than is furbalanced feed may be made out of nished by the label which declares the these refuse heaps by adding to them protein content, moisture, ash and carmaterials containing protein and fat, bohydrate content. The source of the as for instance, cottonseed meal. If material sold as a concentrate should that were all, the harm would not be also be understood. To be sure he may so great, but in many of these feeds not yet be in a position to make full various refuse materials and weed use of this information, but we do seeds, whole or ground, are used in know at the present time that there place of good protein concentrates. are good proteins and poor proteins, Weed seeds are always rich in nitro- and that certain proteins may be greatgen and when these feeds are analyzed ly improved in efficiency by using the nitrogen in the weed seeds adds to them in combination with proteins the percentage of protein in the feed, from other sources. Certain proteins The analysis gives no information as from both the corn and wheat kernel to the nutritive value of the so-called are entirely inadequate when fed as protein derived from the weed seeds. the sole protein of the ration, because Some weed seeds are known to be poi- of their entire lack of certain amino sonous. Little or nothing is known of salts, but when the entire kernel of the nutritive value of most weed seeds. either corn or wheat is fed the defi-The only way to find out is to feed ciency of these salts in the one part them to cows and compare results, are supplied by the other, so that These facts are stated to show the fal- there are present in the entire kernel lacy of the popular belief that a pound of the corn or wheat all the necessary of protein from one source is as valu- amino salts necessary for complete diable as a pound of protein from anoth- gestion of the protein. This merely shows how it is possible for the manufacturers to so rearrange the proteins This is even more true of fats than in feedstuffs that their value for dairy of protein. Fat as determined by the feeds may be impaired or improved. chemist is the ether extract and ether The protein from corn and wheat have dissolves many things other than true greater nutritive value when fed to-

Another valuable lesson for feeders meal, both of which are called fat in is the remarkable supplemental power tables of composition of feeding stuffs of the proteins of oilmeal for those of differ greatly in their composition and corn meal. The proteins of these two



Way of Harvesting Corn Yields to Modern Methods which Conserve a Larger Portion of the Digestible Nutrients of the Plants.

feeds are evidently each poorly balanced in their make-up, but one is weak where the other is strong, so their mixture is better than either one alone. This plainly shows that feeders have much to learn concerning the problem of compounding proteins and fats from different sources in order to increase the efficiency of the ration. It also explains why it is always desirable to feed a variety of grain feeds instead of depending upon one or two kinds of grain feeds.

Likewise succulent and juicy feeds assist in making protein feeds more efficient. An excess of dry, indigestible material in the digestive tract not only prevents the digestive organs from utilizing the protein, but it actually absorbs the secretions of the tract and these secretions contain considerable protein that is not derived from the food that is in it, but from the digestive glands. The dry, indigestible matter holds these secretions and all that are dissolved in them so that the proteins are lost to the animal.-K.

### CHEAPER MILK.

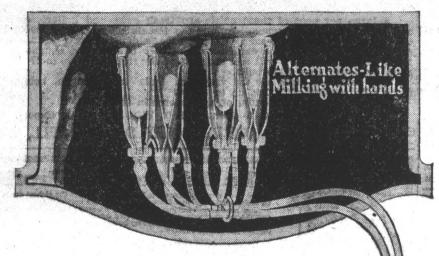
(Continued from page 486). present the situation you could place a carload in a single day, and you will be able to find county agents in the dairy districts who will be delighted to pick you up just the kind of bull calves that you want. They must all be registered before they are shipped. I do not want any of the buyers of pure-bred cattle to be imposed upon by the doctrine that animals are purebred but not registered. The only proof we have of pure-bred is the registration and that is the only thing that you can be guided by.

. I made the statement in Washington when the question of increasing the dairy products was before the govern ment, that the dairy products could be increased twenty per cent in sixty days any time if it was worth while and profitable, by increased feeding of the animals, and I believe it now, but this can only be done with animals that can profitably turn the feed into dairy products, and it is only without utter disregard to cost of production that you can feed scrubs the present high-priced grains. I am convinced, and I have seen evidence of it time after time, that you can take the average scrub herd and increase the production more than fifty per cent in two generations and do it on the same feed that the scrubs had. This is not so strange when you stop to think about it. It is simply increasing the production by more efficient machinery and these cows are simply milking machines. What worries me is that so many thousands of our farmers will waste their time and effort on inefficient machinery. Another reason why scrub bulls

should be done away with entirely is the necessity of raising more dairy cattle, and the evidence that is before you every day of the difference in the price of these machines when you want to buy them. Scrub cows are sold all through the dairy country at prices from \$50 to \$85 per head, an extraordinary scrub might bring \$100, while the grades run from \$100 to \$250 because of their value in producing milk and dairy products. When you go out to piece of machinery you pay proportion to what it can earn for you, and ever man who is keeping a cow now on his farm owes it to himself to keep a good one, and every dairy farmer should have a pure bred sire in order to raise his own calves for his own herd, because of the difference in the cost when he goes out on the market to buy them. The difference between the value on the market of the average scrub and the average grade will pay for a pure-bred registered calf two weeks old, and that same calf during a lifetime would create hundreds of the better grade of machinery if given the opportunity.

# miversa natural milker

Alternates, Like Milking With Hands



A Great Time Saver

Dear Sirs:-

I have had 8 months' experience with THE UNIVERSAL MILKING MACHINE. I find it very easy to operate, a great time saver and far cleaner than hand milking. The parts are easily cleaned with soap and hot water and by using a solution of B. K. are kept sanitary all the time.

Very truly yours,

O. H. KOCH Beaver Dam, Wisconsin

# For Six or Six Hundred Cows Time and Money Saved

Whether the herd numbers six or six hundred, milking time comes 'round twice a day. And they all have to be milked 730 times a year.

Milking takes time, hours by hand, but only min-utes with the Universal.

The Universal Natural Milker is a big time and money saver. Many find it one of the best methods of keeping ahead of rising costs. It increases profits

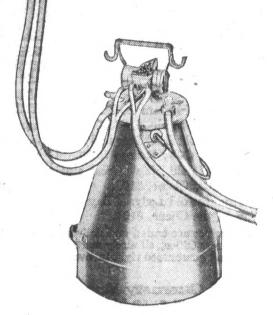
A boy or a girl of twelve can operate two double units, milking four cows at once and do the work of three men in one-third the time.

Nature's own method is imitated. While two teats are being milked, two are being massaged. The flow of milk is stimulated and cows frequently give more milk by this comfortable, mechanical process.
Universal is easy to clean and more sanitary to

use. Once you have used a Universal you would not do without one.

See our nearest dealer or write us for catalog.

The Universal Milking Machine Co., 1303 Mound Street, Columbus, Ohio





—says Noah Digge, of Jacksonville, North Carolina, "with my Ottawa Log Saw under unfavorable conditions, and in 52 hours I sold and delivered \$75 worth."

You, too can make big profits with the Ottawa Engine Log Saw. It is always on the job, and saws from 25 to 40 cords a day. Pays for itself to backache and worry out of backache and worry out of wood cutting. One man does the work of ten. No stopping the engine and no Direct gear to drive saw—no engine to the pays of the pays of

10 Year

Guarantee

SOPHIE'S AGNES JUST

BROKE THE WORLD'S JERSEY YEARLY BUTTERFAT RECORD

Tree Cutting Equipment

**Full Information FREE** 

OTTAWA MFG. CO. 1505 Wood St.

BUFFALO GLUTEN

HER GRAIN RATION

WAS ONLY HIGH-PRO TEIN FEED SHE WAS FED for mankind, reduces Painful Swellings, Enlarged Glands, Wens, Bruises, Varicose Veins; heals Sores. Allays Pain. Will tell you more if you write. \$1.25 a bottle at dealers or delivered. Elberal trial bottle for 10c stamps.

W.F.YOUNG, MS. | 2687emple \$1, Springfield, Mass. Bone Spavin Fleming's Spavin and Ring-bone Paste, \$2.08 a Bottle (War tax paid). One application usually enough, Intended only for established cases of Bone Spayin, Ringhone and Sidebone. Money back if it fatts. Write for FLEMING'S VEST-POCKET VETERINARY ABVISER, It is FREE POCKET VETERINARY ABVISER, It is FREE

from a Bone Spavin, Ring Bone,

Splint, Curb, Side Bone, or similar

troubles and gets horse going sound. It acts mildly but quickly and good results are lasting. Does not blister or remove the hair and horse can

be worked. Page 17 in pamphlet with each bottle tells how. \$2.50 a bottle delivered. Horse Book 9 R free.

ABSORBINE, JR., the antiseptic liniment

Blu-Bar Hog Feeders

FLEMING BROS, 252 Union Stock Yards,

There is absolutely no waste to the Blu Bar Line of Hog and Chick Feeders. It will pay you to investigate the Blu Bar Line before you buy, Write for descriptive literature and prices.

The BLU BAR MFG. CO., Sycamore, Ohio.

Write to H. CHRYSTAL, Selling Representative. 909 Ford Building, Detroit, for sample, feeding formulas, etc. Who is your dealer?

CORN

Please Mention The Michigan Farmer When Writing to Advertisers

# BREEDERS' DIRECTORY

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

# bull calf, sired by our imported "EDGAR of DALMENY"

recently sold in Scotland at the Perth Bull Sale for the record price of 2,100 guineas, or \$10,584.00 in our money. This goes to show the quality of the

# ABERDEEN ANGUS

that Mr. Scripps is breeding. He enjoys seeing good stock on "Wildwood" and believes that THE BEST IS NONE TOO GOOD.

"Edgar of Dalmeny" won the Michigan Grand Championship last Septemeber at the Michigan State Fair and was a winner in his class at the Chicago International last December.

We have a few females with calves at foot and re-bred to "Edgar of Dalmeny" that Mr. Scripps has consented to sell to reduce the fast growing herd.

Write To

### WILDWOOD FARMS ORION, MICHIGAN

W. E. SCRIPPS, Prop.,

Sidney Smith, Supt.

# WOODCOTE ANGUS

Established in 1960. TYPE-QUALITY-BREEDING The herd (tested annually) is absolutely free from tuberculosis.

A few bulls (no females) for sale

Ionia, Mich. WOODCOTE STOCK FARM,

Cloverly Angus, 5 toows with calves, rebred; 2 bred cows:
1 two year old, 2 yearling heiters. Price \$2800. 6 yearling bulls, \$225 each. Geo. Hathaway & Son, Ovid, Mich.

# **Guernsey Bulls Cheap**

### Have Four Young Bulls at Attractive Prices

One 3 weeks old Dam A. R. stock and May Rose blood, \$75.00.

One 3 weeks old Lord Mar and Golden Secret (May Rose) \$75:00.

One 2 months old Maple Crest and Gov. of the Chene, \$100.

One 4 months old Ledyard Bay and Gov. of the Chene, \$125.

Above prices are crated and delivered to Express Office, all nicely marked straight and guaranteed right in every

Hicks' Guernsey Farm Saginaw, W. S. Michigan



196--368 These figures represent the average butter fat production of a grade herd in Minnesota before and after the use of a pure bred

the use by bull. The im-bed herd brought wner prosperity—the nal, only drudgery, to breeders for des-nand prices and or our free booklet, Grade Guernsey."



# REGISTERED

bulls of quality for sale, backed by generations of large produc-ers. All tuberculin tested. Come and look them over.

AVONDALE STOCK FARM WAYNE, MICH.

## Registered Guernseys Two choice two year old Guernseys bred-\$500. J. M. WILLIAMS. North Adams, Mich.

REGISTERED GUERNSEYS

2 hulls, 2 bull calves. Priced to sell.

F. E. ROBSON

Room 307, M.C.R.R. Depot. Detroit, Mich.

Guernsey Bull For Sale Bennie of the Ridge No. 4637. His dam is Trixey of the Midge B. F. 53738 in class E. E. Granddam Abbie of Riverside 31612 B.F. Ohampion Guernsey cow of Mich-igan. Herd of federal and state accredited list. E. J. SMALLIDGE, Eau Claire, Mich.

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

# Oct. 23, 1919 Wah-Be-Me-Me Farms Oct 23, 1919

Howell Sales Co., of Livingston County

# SIXTH ANNUAL SALE

At Sale Pavilion on Fair Grounds, Howell, Mich. 85 Head of Registered Holsteins 85

Sale will Begin at 10:30

A large per cent of these cattle are fresh cows and heifers, or cows and heifers soon to freshen. Among the female offerings is a 29-lb. cow, two 24-lb. cows, several from 22 lbs to 24 lbs, a daughter of a 32-lb. cow; a daughter of a 29-lb. cow, a daughter of a 25-lb. cow, and a daughter of a 21-lb. two-year-old. We will sell six young bulls from dams up to 27 lbs. and sired by better than 30-lb bulls.

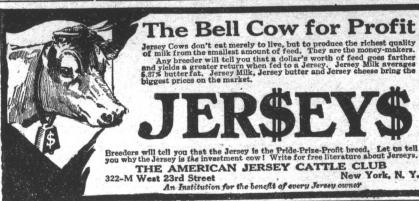
Our reference sires are the very best bulls in Michigan, being from dams with records of 28 lbs. up to 45 lbs.

All cattle over six months of age tuberculin tested.

COL. J. E. MACK. Auctioneer, S. T. WOOD, Pedigree Expert

COL. J. E. MACK, Auctioneer. S. T. WOOD, Pedigree Expert.

JAY B. TOOLEY, Sec'y, HOWELL, MICH. Catalogs Ready Oct. 10th.



# GUERNSEYS must reduce herd, so offer flew choice females of Glenwood breeding also bulls, all stock of A. R. breeding herd tuberculin tested, T.V. HIOKS. Battle Creek, Mich.

WANTED good producing Guernsey or Holsteins and L.T.P.C. or Duroc Jersey hogs, state prices and records. ANNA KONTNY, R. 2, Decatur, Mich.

Guernsey Bulls for sale from 2 months old to year-lings at prices that you can afford. A. HATT & SON, Napoleon, Mich.

\$75 gets 15 mc. old gdson Maplecrest Korn. Heng. and 27 lb. daughter of Johan Heng. Lad. and 18:48 lb. daughter of Cal. Jane Paul A. Dam is my best milk. er. Torms. M. L. McLAULIN, Redford, Michigan.

A Good Note accepted in payment of finely bred reg of the best, and at prices within reach of all. Write, GEO. D. OLARKE. Vassar, Mich.

# Traverse

We have what you want in BULL CALVES, the large fine growthy type, guaranteed right in every way. They are from high producing A.R. O. ancestors, Dam's records up to 30 lbs. Write for pedigrees and quotations, stating about age desired.

TRAVERSE CITY STATE HOSPITAL Traverse City, Mich.

The young bulls we have for sale are backed up by many generations of large producers. Buy one of these bulls, and give your herd a "push". Full descriptions, prices, etc. on request. McPherson Farms Co., Howell, Mich.

## "Winwood Herd" REGISTERED Holstein - Friesian FLINT MAPLECREST BOY

His sire is Maplecrest Korndyke Hengerveld. His three nearest dams each over 30 lbs. of butter in 7 days. His dam and granddam both made over 1232 lbs. of butter in one year. It is the yearly cow we are looking for to deliver the goods. Fiint Maplecreboy's Dam is Gluck Vassar Bell. 30.57 lbs. of butter in 7 days and 121 lbs. in 30 days. Her butter fat test is 5.21. We have a few choice bull calves about ready is 1.43/s and 121 lbs. in 30 days. Her butter fat test is 5.21. We have a few choice bull calves about ready for service and one or two ready. Remember we are breeders and not dealers in cattle. Our price is right breeding considered. Write us your wants, or come and look this herd over before you buy, and see for yourself. You will be glad you came. Herd tuberculin tested.

JOHN H. WINN, Inc. Lock Box 249, Roscommon, Mich. Reference Roscommon State Bank,

Registered Holstein heifers bred to a double grand son of the great May Echo Sylvia 41 lbs. hutter and 006 lbs. milk in 7days. C. H. Giddings, Gobleville, Mich

# REGISTERED HOLSTEIN

bulls from A. R. O. Dams.

SINDLINGER BROTHERS MICHIGAN LAKE ODESSA,

# Tues. Oct. 21, 1919

Six (6) miles N. W. Parma

Registered Holsteins: 1 heifer 2 yrs. old due to freshen Nov. 22, 1 heifer 8 mos. old, 1 heifer 4 mos. old, 1 bull 5 mos. old.

Registered Angus: 2 cows 3 yrs. old one due to freshen Dec. 15. other bred Aug. 10. one heifer calf born May 10.

6 grade Holstein Cows ages 2 to 6 yrs. all giving milk, also 8 grade Angus calves. Farm tools, hay, grain. Free livery from 9 to 11A.M.

CHAS. KINNEY & SON.

a few registered Holstein females-cows or heifers, or will buy a small herd, for spot cash. Must be free from abortion and stand tuberculin test. Please state full particulars in first letter, as to prices, ages, herd book numbers and breeding. No fancy prices. Lock Box 37, Shepherd, Mich.

# REGISTERED HOLSTEINS

Four cows and two heifer calves. Two cows have A.R.O. records. All well bred along choice blood lines. Will sell separate or together.

EDWARD L. DILLIAN Oshtemo, Michigan

### THE HOLSTEINS

At Maple Avenue Stock Farm are under Goverment supervision. The entire herd have just been tuberculin tested and not one resortor. A good place to buy that you are looking for, and I have two very fine, richly bred, and splendid individuals ready for any amount of service. I want to answer any question you may ask about htem.

L. E. CONNELL, Fayette, Ohlo

# **CLUNY STOCK FARM**

100--REGISTERED HOLSTEINS--100
When you need a herd sire remember that we have one of the best herds in Michigan, kept under strict sanitary conditions. Every individual over 6 mos. old regularly tuberculin tested. We have size, quality, and production records backed by the best strains of breeding.

Write us your wants.

R. BRUCE MCPHERSON, Howell, Mich.

# HOLSTEINS of QUALITY

A doz. fine, large cows for sale from three to six year old. Poutiac Korndyke, and Colantha Fourth-Johanna breeding, Also four heifers just being bred to one of Michigan's best young sires. All have just beer Feedral tested.

E. A. HARDY, Rochester Mich. E. A. HARDY, Rochester, Mich.

\$125 buys choice Reg. Holstein Bull nearly 1 yr.old. Color., 1/2 white; breeding, Pontiac and King Segis. Guaranteed. B. B. Reavey, Akron, Mich.

Registered Holstein: bull calf born Nov. 17, 1918.
His dam an untested daughter of a 24'2 lb. cow. Sire's dam has yearly record 802 lbs. butter 18622 lbs. milk at 25'4 yrs. of age. W.B. IEŁABER, Howell, Mich.

# White Pigeon, Mich. Holstein-Friesian Cattle

Herd Headed by Segis Pontiac De Nijlander

A 32 lb. grandson of Michigan's great 35 lb. champion cow, Pontiac De Nijlander. His dam, Oak Valley Korndyke Beets Segis Fan, 32.06, also a Michigan prize winner on yearly production and a prize winner in the National Ass'n. Write for list of bull calves from 18 lb. 2 year olds to over 30 lb. dams.

For Sale: Jersey bull, Glory's Majesty No. or, black tongue and switch. His sire Majesty's Oxford Fox No. 134214. His dam, Noble's Glory No. 301015 Imp, with a R. M. record of over 400 bb, butter with first calf. Will ship C. O. D., no females for sale at present. Newman's Stock Farm, R. 1, Marlette, Mich.

LILLIE Farmstead Jerseys. A few heifers bred to freshen this fall, also yearling heifers; and two or three R. of M. cows. Colon C. Lillie, Coopersville, Mich.

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

Maple Lane B. of M. Jersey herd.

Calves sired by a nephew the new World's Also B. C. Red eggs and Champion, Sophie's Agnes. Also B. C. Red eggs and Likylin FOX,

Allegan, Mich.

For Sale Registered Jersey bulls ready for service and bull calves.
SMITH & PARKER, R. 4, Howell, Mich.

The Wildwood Jersey Farm Bulls for sale by Majesty's Oxford Fox 134214 and Em-inent Ladys Majesty 150934, and out of R. of M. Ma-jesty dams. ALVIN BALDEN, Capac, Mich.

Jersey Bulls For Sale From R. of M. stock. Oxford Lad-Raleigh-St. Lambert breeding. Meadowland Farm, Waterman & Waterman, Ann Arbor, Mich.

Jersey Cattle for sale; cows, heifers and one bull ten months old.
E. A. BRISTOL, Fenton, Mich.

Young stock both sexes for sale.
"Keep On 508019" heads the herd. Write us your wants. Visitors welcome.

JAY HARWOOD. Ionia, Mich. Farm six miles south of Ionia.

Herefords Polled and Horned blood lines embrace Fairfax. Polled Perfection and Prime Lad 9th breeding. Prices reasonable. COLE & GARDNER. Hudson, Mich.

Herefords Bob Fairfax 494027 at head of herd. Stock for sale, either sex, polled or horned, any age. Priced right. EARLO. McCARTY, Sec. y. H. B. Ass'n. Bad Axe, Mich.

HEREFORDS: young stock of either sex for sale.
RALPH S. SMITH, Kewadin, Mich.

Shorthorn Cattle of both Sex for Sale W. W. KNAPP, Howell, Michigan.

For Sale Shorthorns of Quality Scotch. and Scotch Topped descendents of Archers Hope, Avondale, Maxwalton Sulton and White Hall Sulton, Model Type, by the Oscola Co. Shorthorn Breeders Ass. John Schmidt, Sec. Reed City, Mich.

# BIDWELL SHORTHORNS For Boof and Milk

Registered bulls, cows and heifers. Good Scotch and Scotch-Topped for sale. In prime condition. Modern sanitary, equipment. Herd under state and federal supervision. Farm 10 minutes from N.Y. C. depot, 1 hour from Toledo, Ohio. Automobile meets all trains. Write

BIDWELL STOCK FARM
Box B. Tecumseh, Mich.

# Richland Stock Farm

SHORTHORNS
HOME OF THE MICH. CHAMPIONS
We offer for sale a few good dual purpose cows with calves at foot. Also two three year old bulls suitable for range purposes, We invite inspection.
C. H. PRESCOTT & SONS,
Office at Tawas City, Mich. Herds at Prescott, Mich.

Shorihorns Scotch and Scotch Topped cows and helf-ers, priced right. Come and see them or write W. B. McQUILLAN, R.7, Howell, Mich.

Shorthorns New list, 27 bulls; 28 females. Feb. list all sold. Central Mich Shorthorn Breeders' Assn., Oscar Skinner, Secy., Gowen, Mich.

NO STOCK for sale at present, Kent Co.
L. H. LEONARD, Sec., Caledonia, Mich.

SHORTHORNS A young Mary cow and ale. Louis Bubbitt, Williamston, Mich Meadow Hills Shorthorns—For sale females of all ages, including one aged cow at bargain; also one roan bull ready for service. Geo. D. Doster, Doster, Mich.

MILKING SHORTHORNS 5.5.3 bull calves. Davidson and Hall, Tecumseh, Mich.

Special Offer Shorthorns— Cows \$250 to \$300, Bulls \$200 to \$250, Mich.

SHORTHORN BULL CALVES
FOR SALE. Chas, Metzel & Sons, Ithaca, Mich. Milking Shorthorns of best Bates breeding 2 and 7 months old for sale. E. H. Kurtz Mason, Mich.

FOR Sale, Thirty head high grade Shorthorn and Hereford steers, weigh about 700 pounds. If fed for spring markets will be money makers. Price \$70 per head. J. E. GAMBLE, Hart, Mich.

Registered Shorthorns, bulls \$100 and up some fit for service. Inspection or in quiry invited. E. J. Kickerbooker. Homer, Mich.

Milking Shorthorns No stock ffor sale.
ROSEMARY FARMS, Williamston, Mich.

### NATIONAL SWINE SHOW.

MORE than one thousand five hundred head of hogs from thirtythree states and from Canada were on exhibit at the National Swine Show at Des Moines, Iowa. They were estimated to be worth more than a million and one-half dollars. This was one of the greatest hog shows ever held in the United States.

A special feature of the show was a series of lectures given by authorities from all parts of the United States on swine breeding and raising. Dr. Robert Graham, of the University of Illinois, Prof. L. B. Burk, Bureau of Markets, Washington, D. C., E. J. Russell, Bureau of Animal Industry, Washington, D. C., Prof. Honeycutt, Buenos Aires, South America, Dr. J. S. Kime, Fort Dodge, Iowa, and Prof. W. J. Loeffel, of Lincoln, Nebraska.

Another feature of the show was an exhibit of hams and bacon by the Department of Agriculture, showing the preparations and the proper methods of the home curing of meats.

A debate on the advisability of the United States government's control of the packing industry was a feature that attracted wide interest. W. B. Culver, of the Federal Trades Commission, talked for the government, while L. D. H. Weld, of Swift & Company, plead the cause of the packers. An intensely interesting discussion resulted but not much new information was brought to light.

Sales made by exhibitors amounted to about \$250,000 during the sale.

G. H. CONN.

GOOD PRICES AT BUTH BROTH-ERS' SALE.

THE dispersal sale of the Buth Bros.' herd of registered Holsteins at the Buth Farm north of Grand Rapids. October 1, consisted of sixty head and the proceeds totaled \$44,300, an average of \$738, including the calves. Of the herd fifty-two were cows, heifers and calves and these brought an average of \$812. Eight bull calves brought an average of \$260 each. The highest price was \$3,200 for Lakeside De Kel Queen 2d 217864, a six-year-old cow with a butterfat record of 30.98 pounds per week. She was taken by Elliott G. Stevenson, of Detroit, for a farm he owns in Canada. One four-year-old cow went at \$2,500 and another at \$2,-250, and an eleven-months'-old heifer calf, daughter of a thirty-pound cow, sold at \$1,725. Four heifer calves under a year, daughters of thirty-pound cows, sold at an average of \$1,494.

Many of the cattle sold were sired by Glen Alix King DeKol, owned jointly by the Buth and Maryland farms. The cattle sold will be shipped to half a dozen states, the West Virginia buyers alone taking about \$10,000. The high prices paid at this sale is very gratifying to the owners and to other breeders of good stock.

The dairy cow must have some reserve constitutional force, for she must be able to resist or throw off disease germs which are so prevalent in many of the stables where sunlight and good ventilation are things unheard of. Constitution, in a large measure, depends upon the room in which the heart and lungs are placed. This part of the cow should be roomy, giving perfect freedom for these organs to perform their functions, as the milk is made by the blood and the blood is purified by the amount of oxygen the lungs may pump from the air. An abundance of nourishing digested food is also an important factor in building up and controlling constitutional vigor. If the human body gets weakened, physicians prescribe a diet of easily digested, easily assimilated food, so it is the business of the feeder to watch his individuals and keep them in a healthful condition.



Dr. LeGear's Stock Powders

Insure sturdy offspring, get normal yield from milkers, have healthy draft stock ready for heavy spring work, get rapid gain on packer stuff by consistent use of these conditioners. Dr. LeGear's Stock Powders contain Iron for the blood, Nux Vomica for the nerves, Laxatives for the bowels, Kidney Regulators, and Worm Expellers.

Dr. LeGear's Poultry Prescription keeps hens healthy, insures winter eggs and better profits for you.

Dr. LeGear's Autiseptic Healing Powder eleanses, drys and heals sores and cuts quickly.

Dr. LeGear's Lice Killer (Powder) rids your flock quickly of lice, protects chicks, etc.

All of Dr. LeGear's Remedies are sold with a money-back guarantee that they will do all that is claimed for them. Ask your dealer-today. Sold by 40,000 dealers—never by peddlers.

Dr. L. D. LeGear Medicine Company 712 Howard Street, St. Louis, Mo.

# Dispersal Sale Thurdsday, Oct. 23, 1919 at 10 o'clock

## Belgian Stallion, Max du Marias

Belgian Stud Book 3559, Am. Reg. 733, 12 years old, wt.1909. Winner first prize 5 years in succession Van Buren Co. Fair.

# 14 Reg. Red Polls

7 cows, 4 heifers, 2 bulls, 7 months and 1 year. Prize Winners and high grade stock.

W. J. BROWN & SONS, LAWRENCE, MICH.

For Sale Several choice young Shorthorn cows and heifers Airdrie Duchess and Rose of Sharon families. E. S. Batcheler, R. 6, Howell, Mich. Dual Purpose bulls of serviceable age. A few cows and heifers left.
T. I. MARTIN, R. I. Ionia, Mich

Red Polled Bulls For Sale

HOGS

Berkshires \$25. Early summer farrow. Begistered boar pigs, large type, from my mammoth boar. Charmer's champion 5th. Combine quality and breeding. Write for historical pedigree.

BURR B. LINCOLN, Harbor Beach, Mich.

Registered Berkshire Boars; ready for service. A few Regists and sows bred for May and June farrow. Also spring pigs. CHASE STOCK FARM, Marlette, Mich. REG. Berkshire boar past 1 yr old for \$75.00. Late spring pigs at \$40 each. No sows for sale.

B. B. REAVEY, Akron, Mich.

Registered Berkshire boars for sale. Satisfaction guaranteed also Ancona cockerels. Prices JOHN YOUNG, Breckenridge, Mich. For Sale three month old Berkshire pigs eligible for registration. \$30.00 a piece.
FAIRMAN FARMS. Plymouth, Mich.

# Auction Sale FREE

Of Registered Jerseys At my farm, At Hadley, Mich.

Sat. P. M., Oct. 25, 1919.

Six cows, 3 to 9 years old, 3 fresh, others soon. Four yearling heifers. Two yearling bulls. Three calves. Also all other farm equipment, as my farm is sold. I am going out of business. Sale easily reached by Auto, or from Goodrich on D. U. R., or from Lapeer. Free Lunch for those from

LEWIS H. RILEY, Prop.

What would the earning capacity of a Brook-water Boar be in your herd? A mid-west breeder states that the Brookwater boar he used added from \$75 to \$100 to every gilt bred to him. It payed this man to use one of our boars it will pay you.

It payed the state of the state of the state of the state of the small breeder who must of necessity be a conservative buyer. We have a few that are good enough to be used in high class herds at prices in keeping with their in individuality and breeding. Money invested in a good herd boar very speedily increases the value not only of what you sell but what you keep. Send for price list or better, visit the farm.

BEOOKWATER FARM. Ann Arbox, Mich.

BROOKWATER FARM, HERBERT W. MUMFORD, owner, J. BRUOE HENDERSON, Manager.

DUROC JERSEYS Boars sired by a son of King the Col.
E. D. HEYDENBERK, Wayland, Mich.

To introduce the merits of our pure bred Durocs, we will give the following away.

DR. LEGEAR'S

No. 1. sow pig 8 weeks or over for heaviest pig either sex purchased from us, weight reported at 9 mos. of age.

No. 2. Boar 8 weeks or over for largest order of of 8 weeks weanling pigs taken by one customer before Jan. 1, 1920.

No. 3. Gilt bred to farrow for largest order of 6 mos. or over pigs, not less than \$200 before March I, 1920.

All ages and both sex for sale by Satisfaction 10th 104971 and a grandson of Orion Cherry King. We ship C. O. D. and guarantee satisfaction.

EAGER BROS., HOWELL, MICH.

# T.C. Rossman's DISPERSION SALE of Durocs MONDAY, OCT. 27, '19

On state road 4 miles north of Oxford or half mile east of Thomas, Mich. Parties coming from a distance will be met at Oxford with auto. Call

Purpose BOARS
ready for service; excellent breeding and individuality.
The large growthy kind, also Aug. & Sept. boar pigs,
prices very reasonable.
Oakwood Farm, Romeo, Mich.

# **DUROC JERSEYS**

CAREY U. EDMUNDS, Hastings, Mich. Additional Stock Ads. on Page 503



SECOND EDITION.

The markets in this edition were re-

### WHEAT.

The local grain trade is quiet though there is a good shipping demand for wheat. The weather early this week was favorable for marketing the grain, and large receipts are expected during the week Northwest expected during the week. Northwestern markets were reported lower on Wednesday. One year ago No. 2 red sold on the local market at \$2.22. The present Detroit

										\$2.27	
No.	1	mix	ed							2.25	
No.	1	whi	te							2.25	
No.	2	red								2.24	
No.	3	red								2.20	

a drop of three cents. Corn not coming in freely, and the strike of long-shoremen in New York is holding up the export trade. One year ago No. 3 corn was quoted at \$1.30 on the local market. Present Detroit quotations

		corn .									
No.	3	yellow					8				1.45
No.	4	yellow									1.43
No.	5	yellow	•	•	•	•					1.42

### OATS.

Oats declined one cent on the local Trading is quiet and demand is weak. A year ago standard oats were quoted locally at 72c. Present is weak.

No.	2	white					73
No.	3	white					711/2 @ 72
No.	4	white.					701/2@71

# RYE.

This market is off, a decline of 2c on the local market being noted since last Saturday. Cash is now quoted at \$1.38 for No. 2.

### BARLEY.

There is nothing new in this deal, with the situation steady at \$2.50@ 2.60 per cwt for cash No. 3 on the local market.

### BEANS.

Bean growers are somewhat at a loss to know how to take the present market. Some are anxious to sell while others figure that conservative marketing is the best policy to follow. Trading is easy at Detroit with the board quoting prompt shipment \$7.10. Domestic consumptive trade is slack, no export business is reported and no export business is reported, and speculators are leaving the market alone. In New York choice pea beans are quoted at \$8 per cwt; common to fair \$7@7.75. In Chicago there is very little doing with choice to fancy handpicked pea beans at \$8@8.25; red kidneys at \$11.50@12.

## FEEDS.

Trading is steady and firm. Detroit quotations are: No. 1 timothy \$28.50 (@29; standard and light mixed \$27.50 (@28; No. 2 timothy \$26.50@27; No. 1 mixed and No. 1 clover \$24@25.

Pittsburgh.—Timothy is easier and Pittsburgh. Trading is steady and firm. Detroit

Pittsburgh.—Timothy is easier and clover firm. Quotations: No. 1 timothy \$29.50@30; No. 1 light mixed at \$29.50; No. 1 clover mixed and No. 1 clover \$21.50@29 clover \$31.50@32.

### POTATOES.

The movement from the producing states is a little smaller than for Monstates is a little smaller than for Monday, and markets are generally steady, Michigan farmers getting around \$1.50 at warehouses for Round Whites in bulk. The Detroit market is slow with supplies moderate. Michigan round whites are bringing \$3.50@3.75 per 150-lb. sack. In Pittsburgh the market is slow, with Michigan No. 1 stock bringing \$3.65@3.85 per 150-lb. sack. In Cleveland the same stock is quoted at \$3.50 on a weak market. The Philadelphia trade is firm, and Chicago is firm.

### BUTTER.

Butter trading is bullish with prices vised and corrected on Thursday af going to higher levels. Several good-ternoon, October 16. sized export orders have been filled the past week. Fancy goods are especially scarce. In Detroit the fresh creamery jobs at 59c, while the fresh creamery, 1-lb bricks sold for 61½@63c; in Chicago at 48@64c; in New York 56½@67c; extra creamery 68½c in Philadelphia

# EGGS.

### WOOL

The government will hold four wool auctions in Boston, the first to begin November 10. About 25,000,000 pounds are to be sold at the first series. Manare to be sold at the first series, manufacturers are urgently seeking fine fleeces, which continue to be quoted at \$3@84c for fine unwashed delaines; \$0@81c for half-blood combing, 70@72c for fine unwashed elething

# DETROIT CITY MARKET

The Detroit market was short of fruit and vegetables Tuesday morning, with the exception of grapes and potatoes. The market showed the effects tatoes. The market showed the effects of recent frosts, being limited to staple winter vegetables. Apples were plentiful and steady, good No. 1 stock going at \$2@2.75, and fancy \$3@3.50, with windfalls selling at \$1.50 a bushel. Potatoes were in good demand and prices generally range between \$1.40@\$1,50 per bu; beets \$1; carrots \$1@1.25; cauliflower 75c@1.50; cabbage 75@1; eggplant \$1@1.50; tomatoes \$2@3; green tomatoes 75c@\$1 a bu; hens 28@30c lb; heavy springers 30c; light do 26c; fresh eggs 56@57c.

GRAND RAPIDS

### **GRAND RAPIDS**

Potato receipts the past week have averaged 5,000 bushels daily, the greatest per cent coming from Montcalm county. The reason of the long haul is, that buyers at points up state insist on potatoes being graded, and on the Grand Rapids market they do not. ufacturers are urgently seeking fine fleeces, which continue to be quoted at \$3.00 84c for fine unwashed delaines; \$1.30 per bushel. Apple shippers sent 24 cars last week from Grand Rapids. Orchardists ask \$2.00.2.50, orchard run, per cwt. Hubbard squash is quite plentiful and cheap. One grower marketed a ton last week for \$25. Eggs about apple prices. The tendency are extremely scarce and dealers bid seems to be toward a steady market, 53c per dozen for fresh laid. Reports although in Chicago a slight weakening on the crop of turkeys are that it will is noted since a week ago. High temperatures have been a hindrance to state. Dealers are bidding 30c per

the movement of inferior grades. At Detroit various varieties of A-2½-inch been no frost of a killing nature. The are bringing \$7@7.75 and unclassified grades \$6@6.50. Fancy stock is bringin \$7.50@8 in Chicago, and extra fancy Jonathans \$8.50@9.50.



# **GOMBAULT'S** CAUSTIC BALSAM

A safe, speedy and positive cure for

Curb, Splint, Sweeny, Capped Hock, Strained Tendons, Founder, Wind Puffs, and all lameness from Spavin, Ringbone and other bony tumors. Cures all skin diseases or Parasites, Thrush, Diphtheria. Removes all Bunches from Horses or Cattle.

As a HUMAN REMEDY for Rheumatism, Sprains, Sore Throat, etc., it is invaluable.

Every bottle of Caustic Balsam sold is Warranded to give satisfaction. Price 3.175 per bottle. Sold by druggists, or sent by express, charges paid, with full directions for its use. Send for descriptive circulars, testimonials, etc. Address

THE LAWRENCE-WILLIAMS COMPANY, Cleveland, Ohio.

# Live Stock Market Service

# Reports for Thursday, October 16th

L	Cattle.		
t	Receipts 2,088. Market	steady.	
l	Best heavy steers	\$12.00@	13.0
,	Best handy wt bu steers	9.50@	10.5
	Mixed steers and heifers	8.50@	9.0
	Handy light butchers	7.50@	8.2
	Light butchers	6.50@	7.0
	Best cows		9.0
	Butcher cows	7.00@	8.2
	Cutters	5.50@	5.7
	Canners	5.00@	5.2
	Best heavy bulls	-	8.00
	Bologna bulls	7.00@	7.50
	Stock bulls	6.50@	7.00
	Feeders		
	Stockers		
	Milkers and springers	65@	12
	Veal Calves.		
	Receipts 1.379. Market	steady.	

meal \$60@61; cracked corn \$65; coin and oat chop \$53@54 a ton.

SEEDS

Another advance in seed prices is noted. At Detroit prime red clover is quoted at \$31.25; December \$31; alsike \$29; timothy \$5.50.

HAY.

Others

Sheep and Lambs.

Receipts 12,893. Sheep are steady; lambs 25c higher.

Pair lambs

\$11.50@13.50

Fair to good sheep

6.50@7.00

Culls

Hogs.

Hogs. Receipts 8,487. Market dull and 25c

CHICAGO.

Hogs.

Estimated receipts today are 30,000; holdover 4,669. Market fairly active, mostly 25@40c lower than yesterday. Bulk of sales \$13.50@14.75; tops at \$14.85; heavy 250 lbs up medium, good and choice \$14.25@14.75; medium 200 to 250 lbs, medium, good and choice at \$14.25@14.85; light 150 to 200 lbs, common, medium, good and choice at \$14@14.75; light lights 130 to 150 lbs, common, medium, good and choice at \$14@14.75; light lights 130 to 150 lbs, common, medium, good and choice at \$13.50@14.25; heavy packing sows 250 lbs up, smooth \$13.50@18; packing sows 200 lbs up, rough at \$13@13.50; pigs 130 lbs down, medium, good and choice \$13.25@14.

Cattle.

Estimated receipts today are 18,000.

Receipts 2
prime steers \$15.50@16; lings \$14@15
and feeders springers \$6
and feeders springers \$6
heavy mixes light do \$14.
14.50; rough at \$13.60; lings \$14.60; lings \$1.60; lings \$14.60; l

stocker steers, common, medium, good and choice \$6@10; do cows and heifers, common, medium, good and choice ers, common, medium, good and choice \$7.50@10; western range cattle beef steers, medium, good and choice \$10.75@15.50; do cows and choice \$10.75@15.50; do cows and choice at the steer of the control of heifers, medium, good and choice at \$7.25@12.

Sheep and Lambs.

Sheep and Lambs.
Estimated receipts today are 35,000.
Market steady to strong. Lambs 84
lbs down, medium, good, choice and
prime \$12.50@15.50; do culls and common \$8.50@12.25; spring lambs, medium, good, choice and prime \$9@11.50;
ewes, medium, good and choice \$6.25@
7.50; ewes, cull and common \$3@6;
breeding ewes, full mouths to yearlings \$6.75@12; yearling wethers, medium, good and choice \$7.25@12.75.

### BUFFALO. Cattle.

October 15, 1919.

Receipts 20 cars; market is steady; prime steers \$16.50@17; spring steers re 30,000; \$15.50@16; butchers \$10@15; yearly active, lings \$14@15; heifers \$6@11.50; cows resterday. \$4@10.50; bulls \$7@10.75; stockers and feeders \$6@10.75; fresh cows and springers \$6@11.70; springers \$65@170.

Calves.
Receipts 1,900. Unchanged at \$7@

Hogs.

Receipts 10 cars. Market is steady; heavy mixed and yorkers at \$15.25; light do \$14.50@14.75; pigs at \$14.25@14.50; roughs \$12@12.50; stags \$9@

### Sheep and Lambs.

choice \$13.25@14.

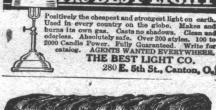
Cattle.

Estimated receipts today are 18,000.

Market is steady. Beef steers, medium

Receipts five cars. Market is strong; lambs \$8@14.50; yearlings \$7@10; wethers \$8.50@9; ewes \$3@7.50; mixed sheep \$8@8.25.

and over you get 5% liberal assortment.





Mr. POULTRY FARMER:

We make a specialty of White Hennery Eggs and have created a profitable market for your eggs the year around. We pay the highest premium for yous Hennery Whites—We remit same day shipmentr arrive. Ship Often—Ship by Express GEO. R. ELDRIDGE CO.

494-18th Street, Detroit, Mich.
Remember! We guarantee you estimaction with every shipment.

For Best Net Results

Ship to CULOTTA & JULL Detroit, Mich.

We will pay 64c per doz-en delivered here for strictly fancy newlaid eggs, cases included. Shipments via express direct from farmers. This price good until se each week.

25th. Watch our price each week. n Butter & Cheese Company, Detroit, Mich. Holmes, Stuwe Co., 445 Riopelle St.

HAY Ship To The Old Reliable House Daniel McCaffrey's Sons, 623-625 Wabash Bldg.. Pittsburgh Pa.

CONFERENCES ENDORSE NATION-AL LIVE STOCK SHIPPERS' FEDERATION.

THE temporary organization of the National Federation of Cooperative Live Stock Shippers held a series of regional conferences. The purposes of the conferences were:

1. To have the active live stock shippers in various sections recommend the men best qualified to serve on the official committee of fifteen, whose duty it will be to meet in Chicago, October 7-8, to perfect plans for a permanent national federation which will be formed in Chicago the first week in December.

2. To find out the desires and needs of the various sections with the ultimate aim of embodying these problems in the National Federation program of work.

3. To make the organization truly democratic by having the actual live stock shippers and farm organizations take active part in its formation,

All of the conferences were well attended by cooperative live stock shippers and others interested, representing fourteen states. Organizing Secretary, E. J. Trosper, Room 906 Royal Insurance Building, Chicago, explained the National Federation purpose and plan of organization.

Following are the resolutions unanimously adopted at these conferences:

Resolved, that we, representatives of Cooperative Live Stock Shippers' interests, indorse the following resolutions adopted at Chicago. Illinois, on August 12, 1919, by the Live Stock Shipping Association delegates representing eight grates. senting eight states:

"Whereas, the returns from a general survey of Coopera-tive Live Stock Shipping Associations throughout the mid-dle west, shows a need, as well as a desire for a stronger affiliation for their mutual protection and benefit, and whereas pursuant to invita-tion representatives of such conferences were present representing the following states: Minnesota, Wisconsin, Iowa, Illinois, Missouri, Indiana, Colorado, Michigan.

"Therefore, be it, and it is hereby resolved that this conference select a committee of fifteen to be composed of rep-resentatives from states hav-ing live stock shipping associations, as a body to work for the perfecting of a National Federation of Cooperative Live Stock Shipping Associa-tions."

Resolved, that this conference ex-presses itself in favor of permanent State Live Stock Shipping Associa-tions as soon as conditions in the various states warrant such organiza-tions, but in order to keep work uniform, the organization of State organi zations be postponed until a uniform plan of organization has been per-

Resolved, that this conference pledge es itself to do all within its power to induce live stock shipping associations to send delegates to the meeting to be held in Chicago, during the Interna-tional Live Stock Show, for the pur-pose of perfecting a permanent Nation-al Cooperative Live Stock Shipping

Association.

Resolved, that this conference expresses itself in favor of a national organization that will look after claims for losses in transit, poor train facilities, and other irregularities in yard-man and food charges place. age and feed charges, clean pens, adequate yardage, lower insurance rates, needed legislation (state and national) in securing a uniform and equitable freight rate on live stock, working to-wards stabilizing the market, and car-ry on educational work to the end that a uniform and efficient marketing system be adopted by the individual shipping associations, and in general coordinating the various shipping asso ciations by securing standard methods of operation, standard accounting systems, improved exchange relations, a

tems, improved exchange relations, a general greater efficiency and any other particular lines of improvement which it may see fit to take up.

Resolved, that we heartily approve the plan of holding district conferences, enabling the live stock shipping interests to take part in the selection of the efficience of the except of the exc of the official committee of fifteen and also to assist in the preparation of a program of work.

ALLIS-CHALMERS 18-30 TRACTOR Equipped with High Tension
MAGNETO Pulling Four fourteen inch Plows

# POWER

weak heart in the wonderful engine called our body, makes a weak body, and so a spark from a Magneto can make or mar the efficiency of any tractor deriving its power from an internal combustion engine.

The spark from K-W Magneto, is so hot, that when it occurs within a cylinder filled with carbureted gas, the combustion is instant and complete, and full power is assured from every drop of fuel used. This is why a tractor K-W equipped, will show far greater efficiency, power and economy, over the same tractor using other ignition.

The K-W Magneto was built for tractors, and has proven its worth in tractor service covering a period of nine years—when two manufac-turers adopted it—until today, when on over 70 per cent of all tractors made, the K-W is standard equipment.

Make sure the tractor you buy is

K-W equipped. It is your insurance against expensive and annoy ing delays, and a guarantee of service and satisfaction, Write for a list of K-W equipped tractors.



High Tension

Fire Any Kind of Fuel MAGNETOS Out of Every Drop Used

# It Does More and Goes Farther Than Any Product Known



Wise Stockmen Everywhere are TIX-TON Users

TixTon ANTISEPTICS

the year around keep stock healthy

and ticks. A \$5.00 box makes \$60.00 worth of medicated salt, or stock conditioner—saves you big money. stock conditioner—saves you big money.

Send \$2.00 for a box of "TIX TON-MIX" by parcel post. It will medicate a barrel of salt. For hogs, sheep, cattle, horses, and poultry.

PARSONS CHEMICAL WORKS, Grand Ledge, Michigan Write for Club Offer Leona Park Farms Experiment Station

### Repair Auto

# I. C. BOARS FOR SALE

One of the Best Herds in Michigan
Big type, growthy boars of all ages. I ship C. O. D., pay express and register in buyer's name. If you want a real choice boar, guaranteed right in every way, write me

J. CARL JEWETT,

R. 5, Mason, Michigan.

### HOGS

# **DUROC BOARS**

of size, quality and breeding, Fair Winners. Come see herd. NEWTON BARNHART, St. Johns, Mich. ality and breeding All are sired by State

Michigana Farm Durocs. You can't afford 'to mis-ing breeding stock. Two choice Panama Special years ling boars for sale. Choice unrelated pigs at \$50 a pair. Satisfaction guaranteed. O. F. FOSTER, Mgr., Pavilion, Mich.

DUROC Jersey spring boars sired by Orion Cherry King Col. 2nd. with size and feeding qualities. W. G. Taylor, Milan, Michigan.

# Registered Duroc Boars

We have a choice lot of spring boars, sired by Michigan Cherry Coi. No. 11949. Fra Jackson selected this boar wo head our herd. Our prices are within every farmers reach. The Jennings Farms, Bailey, Mich., R.F.D.No.1 Duroc Jerseys Two good yearling boars that best herds in Michigan, also spring boars large enough for service. Sired by the Grand and Junior Champion boars. F. J. DRODT, R. 1, Monroe, Mich

Duroc Jerseys For sale: spring and fall pigs of both sex.
CHAS. BRAY, Okemos, Ingham Co., Mich. CHAS. BRAY,

8734 Hampshires recorded from Jan. 1 to Apr. 1. '19. John W. SNYDER. R. 4., St. JOHNS. MICH.

THE WORLD'S CHAMPION big type O.I.C'S. Stock of all ages for sale. Herd headed by Calloway Edd, the World's Champion O. I. C. boar assisted by C. C. Schoolmaster. Grand Champion boar of Michigan, New York and Tennessee state fairs. Also, C. C. Giant Buster, undefeated Senior boar pig wherever shown and Grand Champion of Oklahoma state fair. Get our catalogue of Orandell's click Michigan. fairs. Also, C. U. Giant Buster, in boar pig wherever shown and Grand lahoma state fair. Get our catalo prize hogs, Cass City, Michigan.

O.I.C. One very choice 9 months old boar and (68928). Glenwood Stock Farm, Zeeland, Mich.

O. I. C. and Chester White Swine Strictly Big Type with quality. Spring pigs of March and April farrow. A choice lot of boars. Will only spare a few more gits at present. Will-ship C. O. D. aard record them free.

Marlette, Mich. R. No. 1. O. I. C. 20 Choice Young Clover Leaf Stock Farm. R. 1, Boars and a few fine gilts. Monroe, Mich.

O. I. C's. I will ship C. O. D., pay the express sold in Oct. and Nov. F. C. Burgess, R. 3, Mason, Mich.

0. 1. C's. A few last spring boars and 15 very choice growthy stock. registered free. Citizens phone 124, 154 mile west of Depot. Otto B. Schulze, Nashville, Mich.



want to place one ty where I am not all lopers—ready for man —" More Money from G. S. BENJAMIN, R. F. D. 10, Portland, Michiga

Chester White Boars of quality ready for shipped on approval. Floyd Banister, Springport, Mich.

# POLAND CHINAS

Spring boars and gilts for sale sired by our 1000 lb. boar at 24 months old and their dams weigh 700 lb. These, are the best lot of young boars and gilts we have ever raised.

We can furnish pairs and trios not related, inspection invited.

### ALLEN BROS. PAW PAW,

Poars also sows and pigs. Real Big Type Poland Chinas. Bred big for 25 years. Sired by Mich. Buster by Giant Buster, litter 14 out of Mouw's Miss Queen 2nd, some breeding, also by Butler's Big Joe by Rust's Big Joe, out of a Wonder Queen, nuf said. Write us your wants, we will treat you right, our prices are low.

J. C. BUTLER, Portland. Mich.

When In need of something right good in A. L. write W. J. HAGELSHAW, Augusta, Mich.

LARGE Type P. C. the largest in Mich. Spring boars now ready to ship. Boars for the breeders and boars for the farmers. Come and see the real large type with quality. Free livery from Parma furnished visitors. Look up my exhibit at the Great Jackson Co. Fair, Sept. 8th. to 12th, expenses paid if not as advertized. W. E. Livingston, Parma, Mich.

Big Type Poland Chinas with quality. Pigs for sule by Robert R 334798, out of Upsome Matron 240346, and by Upsome Lad 90565, out of Eureka Giantess 241026. New herd header B's Bonanza Joe 100992, by Bower's Mammoth Joe 77441. G. A. BAUMGARDNER, R. 2. Middleville, Mich.

Sale of Big Type Poland Chinas Nov. 5th Choice offering of individuals sired by Mammoth Ben, Gerstdale Jones, The Clansman, Gerstdale King and from dams carrying blood of Big Bob, Giant Ben, King of Wonders, etc. Wesley Hile, R. 6, Ionia, Mich

L. S. P. C. A few good gilts left for Sep-H. O. SWARTZ, Schoolcraft, Michigan

Dig Bob Mastodon Sire is Caldwell Big Bob Champion Of the world, his dam's sire was the Grand Champion at Iowa State Fair, Boars' ready to Ship. C.E. Garnant-Eaton Rapids, Mich.

L. S. P. C. Ten husky spring boars. Well F. T. Hart, St. Louis, Mich.

For Sale Medium T. P. C. Hogs All sizes. J. E. Mygrants, St. Johns, Mich.

SALE- 72 MEDIUM P. C. Nov. 12, 1919. Tony B. Fox, Pewamo, Mich

Big Type P. C. Spring Pigs ner sex. A. A. WOOD & SON, Saline, M

Leonards Big Type Poland China boars, all ages Call or write, E. R. Leonard, St. Louis, Mich.

B. T. P. C. Some of the best males I ever raised. Two October Boars extra good. April pigs weight 1001bs. Price resonable. JOHN D. WILEY, Schoolcraft, Mich.

Miller Meadows, L. T. P. C. Ready to ship immune. None better in Nich. Write or come and see. 2% miles west of Marshall. Clyde Weaver, Ceresco, Mich.

Two gilts for sale, sired by C. A. King Joe. Dam is I sired by Great Big Half Ton, by Big Half Ton and out of a Disher's Giant Sow. (Breeding.) Bred to Monster Big Hob by Luken's Big Bob (same breeding as the Grand Champion of the World, Oaldwell's Big Bob, very valuable litter to possess. Fall pigs farrowing now. Book orders early, C. A. Boone, Blanchard, Mich.

Big type Poland China boars for sale. Sired by Big Giant No. 287567 C's Orange No. 330123 and Reish's Col. Jack No. 322507. L. L. Chamberlain, Marcellus, Mich

Large Type Poland Chinas forsale; something good Lin spring boars; write or see them: free livery from Manchester. A. A. Feldkamp, R. 2, Manchester, Mich.

LARGE TYPE Poland China springs pigs.
E. H. EISELE, Manchester, Michi

Big type P.C. Choice spring boars from Iowa's great est herds out of 1100 lbs, sire and mammoth sows; big boned fellows. E. J. Mathewson, Burr Oak, Mich.

FOR SALE P. C. April pigs either sex.
ARMSTRONG BROS., R. 3, Fowlerville, Mich.

BIG Type Poland Chinas. Sired by Smooth Masto don litter mate to the Ili, Grand Champion. The big boned, deep long bodied kind at farmer's prices, Wah-be-me-me Farms, White Pigeon, Michigan

Fairview Stock Farms Tamworths. Register massive ancestors. W. H. Warner, Concord, Mich.

REGISTERED YORKSHIRES

# from Imported strains. Hatch Herd, Ypsilanti, Mich

### HORSES

Percherons, Holsteins, Angus, Shropshires, Duroes DORR D. BUELL. Elm tra. Michigan.

Percheron Stallions and mares at reasonable prices; inpectation invited.

F. L. KING & SON. - Chartlotte, Mich.

Sheep ads will be Found on Page 482



### Correct

# TRACTOR Lubrication

How to read the Chart The four grades of Gargoyle Mobiloils

for tractor lubrication, purified to remove free carbon, are:

In the Chart below, the letter opposite the tractor indicates the grade of Gargoyle Mobiloils that should be used. This Chart is compiled by the Vacuum Oil Company's Board of Engineers and represents our professional advice on Correct Tractor Lubrication.

	1919 Models		Mod	B C	Mod	7 lela	Me	i 8 dela	2 Mu	telo .
TRACTORS	Summer	Winter	Summer.	Winter .	Summer	Winter	Summer	Winter	Summer	Wigitin
Albaugh-Dover (Square Turn) Allis-Chalmers (General Purpose) All Work Appleton (18-56) (22-45) (15-30) (Waukesha)	BB A B BB BB	****	BB BB BB BB	A	BB BB BB BB	*****	BB A B	A . A . A	A A A	A . A
(5-10 H.P.)	B A B B	*****	B A B B	A	B B B B B B B B B B B	*******	B A BB B B	A A A A	B BB A B B	A
(9-18) (10-20) (11-20)	BB B BB BB BB BB	*****	A BB BB BB BB BB BB BB	******	A BB BB BB BB BB BB	******	B B A A B	A Arc	B B A A	A Arc.
(EB). (Big Four (Reeves (Heavy Duty). Fordson. (Gas Pull (Rumely Co.). (Grain Belt	B	A	A B B A B	AAA	A B B	****	A A A B B	Arc A Arc A	A A A B	Arc Arc A
Hart Parr (Model B) Hart Parr Heider Hession Hollis	BB BB BB BB BB	A	B B BB	^^	B B BB	***	B B B	A	BA	A 1. P.
(Model 45) (Model 18) (Model 18) (Indiana K. C. Prairie Dog. Kinnard La Crosse.	BB A BB BB	V : VV : VV	BB BB BB	A A A A	BB A BB	A . A	ВВ	^	٨	A
Liberty Lightfoot Minneapolis Mogul (J. H. Co.) (B-16) (I. H. Co.) Moline Universal National	B B B BB	***	B B B B B B B B B B B	****	B BB A BB	A A A	B BB A BB	***	В	A
Neverslip		***	B B B B B B B B B B	A A	BB BB	A	В	A	٨	Á
" (20-40) (Rumely Co." " (12-20, 16-30) (Rumely Co." " (Rumely Co.). " " (Rumely Co.). " " Parrett." Plow Boy. " Plow Man.	BB	AAAA : A	B B B	**	B BB BB BB	A	B A B BE BE		BAB	*
Port Huron. Royer. Royer. (8-16). (Gianf). Sandusky. Titas (I. H. Co.).	BB BB BB BB	** ****	B BB BB BB BB	A A A	B BB BB BB BB	A A A	A BE	Ar Ar	c A	A Are Are
Townsend. Turner Trundsar Twin City (Model 15). (Model 16). (Model 12-20). Velie.	BBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBB	A A	BE BE	A	BB	A	BA	^		A
Wallis Cub	BB A BB B	A	BE A BE B	A	A A BE	A A A	B	30.31	A.C.	Are

# The coming of Uniform Methods

# How the farmer is increasing his yield

MERICA'S prosperity in all fields A has been due largely to standardized, uniform methods.

Standardizing of work has resulted in lower producing costs and larger

The farmer is learning this lesson.

He operates at a small margin of profit.

A maximum yield must be had from each acre of ground in order that he may realize a profit.

The constant development and improvement in farm implements and machinery has aided him immeasurably.

The work done by horses could never, under the most ideal conditions, be said to be uniform.

The work done by the tractor is uniform-and never varies. It works as well the last hour of the day as the first. The tractor is scarcely affected by conditions of weather.

But the tractor requires uniform care like anything else. One of its chief needs is correct,

uniform lubrication. Traveling as it does at low speed with a constantly heavy load, it develops intense heat.

Unless the lubricating oil has the quality to stand up under severe conditions, the tractor will pound and squeak; power will be delivered irregularly; the engine will overheat and necessitate stopping. Repair bills will

Gargoyle Mobiloils have been found to be the correct lubricants for tractor use. They withstand the intense heat of severe service conditions.

To get uniform service from your tractor and to develop its highest power, use the correct grade of Gargoyle Mobiloils for your type of machine as shown in the chart on the left;

GARGOYLE Mobiloils are put up in 1-and 5-gallon scaled cans, in 15-, 30- and 55-gallon steel drums, and in wood half-barrels and barrels.

> Write for "Correct Lubrication" booklet containing complete automobile and tractor charts, and other valuable data.



In buying Gargoyle Mobiloils from your dealer, it is safest to purchase in original packages. Look for the red Gargoyle on the container.

# VACUUM OIL COMPANY, New York, U. S. A.

Specialists in the manufacture of high-grade lubricants for every class of machinery. Obtainable everywhere in the world

Philadelphia Detroit Minneapolis Kansas City, Kan. Pittsburgh Chicago Indianapolis Des Moines Boston Branches:

Gargoyle Mobiloil "A" Gargoyle Mobiloil "B" Gargoyle Mobiloil "E" Gargoyle Mobiloil Arctic

In the chart below, the letter opposite the car indicates the grade of Gargoyle Mobiloils that should be used. For example "A"means Cargoyle Mobiloil "A," "Are" means Gargoyle Mobiloil Arctic, etc. The recommendations cover all models of both passenger and commercial vehicles unless otherwise noted. This Chart is compiled by the Vacuum Oil Company's Board of Engineers and represents our professional advice on Correct Automobile Lubrication.

417	Mo-	duta.	Me.	dele	Mo	dolo	, Me	dela	Mo	-
AUTOMOBILES	Summer	Winter	Summer	Winter	Summer	Winter	Şummer	Winter	Summer	Winter
Allen	A	Arc.	A	Arc.	٨	Arc.	A.	Arc.	· A	Are.
Auburn (4 cyl.)	Arc.	Arc.	Arc.	Arc.	Arc.	Arc.	Arc.	Arc. Arc.	Arc.	Are.
" (6-39B) (Teetor-H)	A		A	Arc.	A	Arc.	A	Arc.		Ave
Patageon Creek Contraction	Â	Arc.	Â	Arc.	Â	Arc.	A.	Lyre	A	Are.
Briscoe	Arc.	Arc.	Arc.	Arc;	Arc.	Arc.	Are.	Arc.	Arc.	Ara.
Cadillac (8 cyl.)	Arc.	Arc.	Arc.	Arc.	A	Arc.	A	Arc.		Arc.
Chalmers	22		A	A			Arc.	Arc.	Arc.	Are,
(6-40) (6-30) Chandler Six	Arc.	Arc.	Arc.	Arc.	Arc.	Arc.	Arc.	Arc.	Arc.	Are.
Chevrolet (8 cyl.)	Arc.	Arc.	Arc.	Arc.	Arc.	Arc.	Arc.	Arc.	Arc.	Arc.
Chandler Six	A	Arc.	A	Arc.			Arc.	Arc.	Arc.	Are.
Cole	A	٨	٨	A	A	٨	A	^	Arc.	Are.
	Arc	Arc	A	Arc.	1	Arc.	AAA	Arc.	Arc.	Are.
" (Model C) " (2 and 3½ ton) Dodge Brothers	6201	A	A	A	A	Arc.	150.03	Arc.	A	Are.
Dodge Brothers	A A A	Arc.	A	Arc.	A	Arc.	A	Arc.	E	E. Are.
Property of the Property of th	Arc.	Arc	A	A	Arc.	Arc.	Arc.	Arc.	Arc.	Are.
Federal (special)			Arc.	Arc.	В	12503	R	A .	В	AB
Ford	E	E	E	A E A	EA	A E A	BEA	A E A	E	EA
Franklin	Arc	Arc		Arc.	Â	Arc.	Â	Arc.	Arc.	Are.
Franklin	IA	Arc			12				1	
Haynes	A	Arc	A	Arc	1	Arc	A	Arc.	٨	V.e.
Hudson Super Six	A	Arc	A	Arc	A	Arc	Arc.	Arc.	Arc.	Are
	A A A	Arc	A	Arc.	A	Arc	1	Arc.	A	Are.
Kelly Springfield King	^	A	A	A	X	A	A	·A	Arc.	Are.
" Commercial	A	Arc	Arc.	Arc.	Arc	Arc.	Arc.	Arc.	Arc.	Are,
King. " (8 cyl.) " Commercial. Kissel Kar. " " (Model 48). " " (12 cyl.) Lexington.			A	A	A	A	A	Arc.	A	V.
	Arc	Arc	Arc	Arc.	Arc	Arc	Arc	Arc.	Arc.	Are:
Lippard Stewart (Mod.M			Arc	Arc	1 1	Arc	Arc	Arc.		. 1 69
Locomobile	A	E	A	E	A	Arc	E	E	E	Are,
Locomobile	13	12.	A	Arc.	A	Are	A	Arc.	A	Are
Marmon.	A	A	A	A	1 4	^	A	A	A	Are
Marmon	Arc	Arc	Arc	Arc	Arc	Arc	Arc	Arc.	Arc	Are.
Mercer. (22-70)	A	Arc	A	Arc	A	Arc	A	Arc	Arc.	Are.
Maline Voight	В	A	В	A	A	A	AAE	AAE	A	A
Monroe			A	Arc	A	Arc	E	E	A	Vie
Monroe	٨	A	Arc	Arc	Arc		Arc	Arc	Arc	Are
Moon. Nash. " (Mod. 671) " (Quad) National. " (12 cyl.) Nelson	٨	Arc	. A	Arc						***
" (Quad)	A	A	Arc	A	Arc	Arc		Arc	A	Arg
" (12 cyl.)	Arc	Arc	AAA	A	A	A	A	A		
	A	A	Â	Â	Arc		Arc	Arc		
Oldsmobile (4 cyl.)	A	Arc	1		1		Arc		Arc	Are
(8 cyl.) Oldsmobile (4 cyl.) (6 cyl.) (8 cyl.)	1 4	A	A	A	Arc	A	A	A	100	1377.5
Packard	Arc	Arc	Arc	Arc	6 1072	3.9%	1.00	Arc	A	Are
" Commercial	· ^	A	A	A	A	A	A	A	A	Are
Paige (4 cyl.)	Arc	Arc	Arc	Arc	Are			Arc	Arc	. Are
" (6-36)	1	1::	1:11	1::	A	Arc	. A	Arc	A	Are
" (6-40)	Arc	Arc	Are	Arc				1		***
	. Arc	Arc	Arc	Arc	Arc	Arc	Arc	Arc	Arc	Are
Pierce Arrow. "Com'l	A	A	A	A	A	A	^			Are
Premier	Arc	Arc	Arc	Arc	Arc	Arc	. Arc	. Arc		
Regal	Arc		Arc	Arc	Arc	Arc	Arc	Arc	IArc	Are
Regal		1	A	1			A A	Arc	A	Are
Keo	Â	Arc	AAE	Arc E E	AEE	E	E	E		R
Riker Saxon. Selden	Are	.An	. Arc	. Arc	Are	Are	Are	Arc	Arc	An
Simplex Crane	1:		4 2 3	A	1 4	I A	ABAA	A	Arc	
Stearns-Knight Studebaker	BA	Ar	BAA	Arc	A	Ar	A A	Arc		An
Stutz  Velic (4 cyl.)  (6 cyl.)  (a & 3½ ton)  Westcott	A	A	128,796	SMINES	A	38		A	A	An
" (6 cyl.)	Arc	An	Are	Are	Ar		. An	Arg	Arc	An
(3/ ton)	An	An	e A	Are		23 EVE	An	Are	Arc	An
Westcort Walna	. An	c.JAn		c. An		c. An		Arc Arc	Are	Ap
White (Sixteen Valve) White († ton). Willys-Knight. Willys-Six	A A B	A	An	c. Are				A	B	A
Willys-Knight Willys Six	An	. An	Are		An An	c. Ar	c	10		
Widten	TAN	. An	CIAN	E-IAD	euAii	C. IAI		S. Marie	CLASS	- 175