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National Grange--Michigan's Guest

By J. H. Brown

HERE is hardly a farmer and his family in the United States today who does not feel and enjoy more or less benefit because of the hundreds of thousands of rural free delivery boxes scattered over hill and dale, mountain and plain, of this great and glorious country. The farmer, his wife, his children, the hired man (if one is around the premises) more than a million of them, go out to the mail boxes nearly every day and find letters, papers, magazines, merchandise, and so forth, all delivered right at their farm homes.

But how many of these farmers ever stop to think how the R. F. D. was born in this country and who was to livery at the farm doorstep.

If the National and State Granges many ways. Granges to wear and enjoy forever.

tions and doubts of congress, had trou- days of November 12-21, inclusive.

organized in 1867. And in all the years not been under great obligations to the big farm questions to be debated



blame for its conception and final de-this noble Order for many things that and the vigorous and forward-looking him one lesson that he will remember. make life more and more enjoyable in plans to be adopted for putting the

dred years than what they did for the er big day in the Grange calendar speak the voice of agriculture and to R. F. D.; if no farmer could blame when the National Grange meets at sound the note of progress and pros- Michigan agricultural products; and them for another thing than these mail Grand Rapids to work further for the perity that must come to the farmers Grand Rapids and western Michigan boxes and the rural carriers who best interests of the farmer and his of this land if we are to be fed, and if are to show up some industrial producpunch them nearly every working day, family. Master John C. Ketcham has possible revolution is not to over-tions in which that section of the state that would be both blame and glory given us full information of the big whelm us. enough for the National and State doings, and we herewith pass along Delegates are expected from each of notice of some of the good things that the thirty-three states of the Union men and women of the Grange organi-But that great R. F. D. stunt which many hundreds of Michigan Grangers wherein the Grange has a state organ- zation, and all these leaders will be took root in 1896, in spite of the objec- are going to see and hear during the ization. The voting delegates are lim- heard on the big problems of the day.

tion was shelled out, though it looked they are today, and the farmers felt Grangers. to some of us farmers to be even the necessity of organization as keenly worse than measly in its proportions, then as they do in these stirring days, edge with great anticipations over this Reduced railroad rates have been That is only one of the stunts that Now reconstruction is upon everyone's great gathering. For weeks the Na- secured on the certificate plan and this the Grange has pulled off since the tongue and the adjustments that are tional Grange has been a live topic of feature is expected to greatly increase

since that time there has never been Grange at Grand Rapids will be the Grangers are expected at Grand Rap- Grange and is expected to touch the a farmer in the United States who has most noteworthy in years because of ids for this meeting.

had never done another thing in a hun- And so we come once more to anoth- must be as an organized power to automobiles.

ited to the master of each State ble to get swaddling clothes the first Michigan is to be honored with a Grange and his wife. In addition to Grange are in secret, being conducted year. The measly \$40,000 was finally visit of the National Grange this year, the voting delegates hundreds of visit- in the fourth degree so that all memgiven as a sort of sop to get rid of the and for the first time since 1901. Spe- ors are expected at Grand Rapids from bers of the Order can attend. Both farmers' importunities. It was hoped cial interest attaches to the meeting the central west. A special train is day and evening sessions will be held by some senators and representatives this year because in an unusual de-coming from New England. Kansas as the amount of business will be unthat the R. F. D. baby would die of gree the same conditions prevail that promises an impressive delegation, usually heavy this year. To accommosomething or other before the first brought the Order into existence in while New York, Pennsylvania, Ohio, date the large crowds expected during year's experiment was complete. But 1867. Then the country was passing Indiana, Illinois and Wisconsin, will be the early days of the session the meetthe Grange was hovering over and through the period of reconstruction largely represented. L. J. Taber, Masings from November 12 to 15 will be around our biggest law-making town following the Civil War when uncer- ter of Ohio State Grange, is planning held in the armory. Headquarters are and saw to it that another appropriatainty and unrest were as prevalent as special hotel quarters for Buckeye to be at the Pantlind Hotel where the

Michigan, of course, is on a keen 17, will be held.

Special sixth degree Grange sessions

are being held in many counties by the officers of the State Grange in preparation for the seventh or highest degree of the Grange, which is only conferred at the annual sessions of the National Grange. Michigan Grange leaders hope to have a seventh degree class that will rank among the largest ever conferred.

Several counties are planning auto trips to Grand Rapids and their leaders are planning attractive slogans to put on banners and streamers to be displayed as they go overland. One enthusiastic brother has offered to pay the degree fees of the members who go from his county to Grand Rapids; and these members propose to give

We hope to take a picture of that farmers of the country where they brother and his delegation with their

Special exhibits are to be made of particularly specializes.

The meeting is to attract the big

The regular sessions of the National sessions beginning Monday, November

close of the Civil War or since it was being made will remain for decades. discussion in Grange gatherings. Not the attendance. This will be the fifty-The coming session of the National less than three thousand Michigan third annual session of the National high water mark in enthusiasm and

(Continued on page 602).



Grange Parade and Rally Day Brings Out Large Crowds.



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CURRENT COMMENT

The Coal Miners' Strike

many of their more radical manifesta- city consumption. tions, yet recent events indicate that this undoubted advantage may be easily lost. Favorable public opinion is a most potent force for progress along any line, while adverse public opinion is an equally great handicap. In the case of the coal miners' strike, public

made the serious mistake of neglect- operate to wipe out competition. ing to take into consideration the pub- From reports of the hearings, it lic welfare in their attempt to get as would appear that there is considergreat concessions as possible from the able sentiment among the members of mine operators at this most critical the committee toward granting the period of the year. It is greatly to be right of collective bargaining, but the hoped that they will see their error in question at issue is where the right pending an impartial investigation and ers' organizations appeared before the nity and the country, even though it arbitration of their claims.

square deal to all workmen. If the satisfactory returns are obtained by miners have a just grievance they will farmers of the United States, our counits lowest possible minimum. find public opinion with them for its try will cease to be self-sustaining relief, provided they proceed to that within a decade. This possible danger end in an orderly and justifiable man- is recognized by agricultural econoner. They will not, however, enjoy mists throughout the country, and its public confidence and approval unless realization would be the greatest posthey resume their work, which is so sible blow to the safety of the nation. essential to the public welfare and Such an outcomee, which might even safety at the present time.

the world needs badly, but it is a poor will ever arise. time to halt needed production in any hausted to get just consideration by are of such importance that they can-particularly grain. other means, which does not seem to not well escape the consideration of

Milk Producers Acquitted

conspiracy to raise the price of milk cessive distribution costs.

of Illinois.

tions which were being conducted.

This outcome in every case where ducers' associations is the best evidence in the world that these milk the development of this economic pringrations have operated sink of the collective sale of farm products.

THE government decides on a drastic move to thwart the proposed walk-out of the bituminous coal producers' organizations have operated sink of the collective sale of farm products. prove that the prices which were se- reau Federation. cured were not greater, and in most cases were less than the cost of production.

While every such prosecution is a hardship to those against whom it is directed, yet the result of acquittal in each case is beneficial to the dairy industry as a whole, since it gives added publicity to the justice of the sant with the WHILE it is well dairymen's price demands. Enough known that pub- such publicity should serve to conlic opinion in America vince consmers that it is necessary for has ever been favor milk producers to receive a price ably inclined toward which will cover the cost of produclegitimate activities of tion if they are to remain in the busilabor unions, and at least tolerant of ness and keep on producing milk for fire protection is so much more ade-

> Collective Bargaining Economy

A BILL is now pending in congress legalizing definitely collective bargaining in the sale of farm products. This bill is

opinion is most decidedly adverse to now in the house judiciary committee, the methods employed, which means before which a hearing has been in that the government will have the progress. Objections to its broad terms united backing of the people of the have been made by members of the country in the exercise of its power to committee, on the ground that it would absolutely remove all restrictions from The coal miners have undoubtedly farmers' marketing organizations and

As ever, the public stands for a tations to the effect that unless more cause us to lose the balance of trade There is a too general tendency at now in our favor would also necessi-sible of accurate assessment, estimates

which a verdict of "not guilty" was ble them to produce a maximum of greater than ever before. rendered in each of the eight prosecu- foodstuffs which may be distributed to consumers at a minimum of cost.

Congress will, we believe, recognize criminal prosecutions have been the importance of the economic phases producers' organizations have operated ciple as now eexist, provided the matfairly and have not demanded excester is presented in proper light. This strike.—The steamship Crosby is dash-sive prices in any case. In each of is a fruitful field of effort for the product of pieces outside the Muskegon harthese cases the defendants have been gressive farmers' organizations now in bor, able to present accurate cost data to the field, including the new Farm Bu-

> Reduce the Fire Waste

or employ the me-

building costs. This is a new and strong argument for reducing the fire waste which is unreasonably large in should appeal to farmers even more

sible precaution against fire losses. Chimneys and smoke flues should be carefully and frequently examined. use of lanterns about the barns. Fire protection should be given more than blazes may be quickly extinguished in every case where this is at all possible. This is the season of the year when this matter can best be given careful attention on every farm. The time required in taking such precautionary measures could not be more profitably employed in any way.

The great increase in the cost of building will increase the margin of if his risk is adequately covered by insurance, and in any event, a fire cost of nearly \$3,000,000. this regard and return to the mines should stop. Representatives of farmcommittee and made strong represen-be fully covered by insurance. It is the duty of every citizen to take every precaution to reduce this loss to

> Make War on the Rats

O NE of the most serious wastes in America at the present time is the waste caused by rats. While this waste is not pos-

the present time for every interest to tate defensive measures to give us con-based on a good knowledge of the sitget all they can "while the getting is trol of the seas in order to get needed uation run into many millions of dolgood." Undoubtedly it is a good time supplies from elsewhere. We do not lars annually. This is a waste which to profit by honest production which believe, however, that this emergency begins on the farm, continues through transportation to warehouse storage The economic phases of collective and every step along the line of disline until every resource has been ex- bargaining in the sale of farm products tribution of many kinds of foodstuffs,

Campaigns have been organized in have been the case with coal miners. the government. The greater econo- various places to conduct systematic mies made possible by this method of warfare on rats. This subject is be-Many of our read-distribution will go far toward increasing given consideration by government tion of many tariff rates and that all foodsuffs not included in a proposed with the Chicago milk stuffs to a profitable point without inout a general campaign along this line. situation insofar as curring any corresponding degree of Strange as it may appear, the factor States, be placed on the free list. the prosecution of the hardship to the consumer. In this of sanitation and health has had a officers of the Chica- sense collective bargaining by farmers more important bearing on this moveby individual campaigns of exterminato Chicago consumers. Much effort has It will be many years before compe- tion quite as well as by official direc-

been expended by the state's attorney tition could be eliminated through the tion if those who become interested in to make a successful case against operation of this principle, since devel- the matter in every community make these men, who in turn were as vigor- opment along this line will be slow and an effort to secure the cooperation of ously defended by ex-Governor Deneen of a localized rather than a general their neighbors to this end. In fact, a character. The farmers of America successful campaign of this kind must In this case, as in the Cleveland do not desire special privileges not en- extend from the bottom up rather than case, every effort was made to secure joyed in fact by other classes of citi- from the top down, and it is not too a jury that was not in sympathy zens, neither do they want to be hand- early for it to begin now when food-with the farmers who were being crimicapped by legal obstacles to the constuffs are at a premium and the coninally prosecuted, notwithstanding duct of the business so as to ena- sequent losses from these rodents

News of the Week

Wednesday, October 29.

sion at Indianapolis preparing for the bor, with the death toll numbering seventeen persons.—Congress passes seventeen persons.—Congress passes the prohibition enforcement bill over President Wilson's veto.—The bodies of 139 American soldiers who died in E VERY man who harbor.—The British government rehas occasion to ceives a vote of confidence in the buy building material House of Commons, following its re-or employ the measks an extension of the Anglo-Japanchanical labor to util- ese alliance.—General Pershing plans ize it, is fully conver a tour of inspection of war industries very great increase in of this country.

Thursday, October 30.

HE population of East Galicia fac-es extinction this coming winter unless assistance can be provided. this country. This need is one which The federal government outlaws the miners' strike and prepares to forcefully than to city people where lish a fuel administration, while the coal miners insist that the government lacks power to act against the men. Every farmer should take every pos-ble precaution against fire losses. as premier, E. C. Drury, of Simcoe, being the choice of the new farmer-labor government.—Representatives of carefully and frequently examined thirteen nations meet in labor con-Rigid rules should be followed in the clave at Washington.—United States sends a new note on the Fiume question, while foreign diplomats are strivprotection should be given more than ing to restore a better international a passing thought, in order that small feeling.—Canada cancels licenses for sugar exportation.

Friday, October 31.

HE federal government is prepared to fix coal prices, curtail the supplies of industries to provide fuel for the railroads, and orders federal troops to go to the mines.—The question of teachers' salaries is an outstanding them. standing theme at the sixty-sixth annual meeting of the Michigan Teachers' Association at Detroit.—A jury acquits eight Illinois dairymen on trial loss to every man who suffers from a for combining to fix milk prices.—The fire to a very great extent, no matter Michigan State Highway Department if his risk is adequately covered by has awarded contracts for 240 miles of

Saturday, November 1.

M INERS totaling around 394,000 working in ten states, walk out in spite of the injunction secured by federal government against union leaders.—Ellis Dressel, of Boston, is appointed to the American embassy in Berlin when diplomatic relations are resumed.—The longshoremen's strike in New York has kept back food from Porto Rico to an extent that actual suffering from hunger has resulted. Seven bodies are taken from a burning coal mine at Amsterdam, Ohio.-The senate fails to agree on the date for the final roll call on the adoption of the peace treaty.

Sunday, November 2.

HE senate agricultural committee reports favorably to continue the United States equalization board during 1920 and to authorize it to buy sugar crops next year.—Government plans to run mines, producing coal for the government, with convict labor. President Wilson asks house to take over mines and make working agree-ment with miners ment with miners to maintain the country's coal supply.—The farmers' government of Ontario is asking for

Monday, November 3.

N some coal districts there is a tenomcers of the Chicasense collective bargaining by farmers more important bearing on this movego Area Milk Producers' Association is a sounder principle than collective ment than have the losses occasioned
for conspiracy in violation of the law bargaining by workmen which operis concerned. The history of this case ates to the protection of the work that every individual who suffers from
has been reviewed in these columns. man's interest only, while collective this loss, as practically every farmer
The eight officers of the Milk Producers' Association have been under inucts operates to maintain a stable suptake the initiative in abating the loss
dictment for the past two years for ply of foodstuffs and to eliminate exon his own account. This can be done
by individual campaigns of externing.

In some coal districts there is a tendency among miners to call off the strikes, while in other sections the ment appear determined to stay out until demands are granted.—A strong Bolshevist position near the fortress of Kronstadt capitulates to General Yudenitch.—Famine is said to have strikes at the strikes, while in other sections the strikes. sengers was struck by a train at Wood-bury, N. J., and eight persons were (Continued on page 606).



The Potato Situation in Michiga

HERE was a considerable reducion in acreage of potatoes planted, not only in Michigan, but in most other potato-growing states, as compared with 1918. The latest estimate for the production of the United States is eighty-seven and one half per cent as compared with last year. It is possible that this estimate will be raised somewhat in a later report. The reason for making this statement is the fact that the late fall was very favorable for the development of late planted potatoes in sections where the frost did not kill the vines until Octo-The quality of the crop is very good so far as Michigan is concerned. parts of New York, and New Jersey, much trouble has been experienced this year with late blight rot. Fortunately for the Michigan growers, this disease has not developed in this state this season.

Marketing.

The marketing situation in Michigan ization of the Michigan Potato Grow-

ing, or transportation, which is having to the No. 2 grade. a great deal to do with the improveare situated within these distances of graded, there being no requirement, the growers should not feel that the the cities named are having the mar- nor much inducement in fact, for those question of the proper time to plant is still with us, the auto trucks are followed by the carload handlers, there is plenty of rainfall up until the of diseases. A well-nourished plant proving a very important factor in con- When we secure a national law com- middle of August the early planted ponection with the movement of the pelling all retailers to indicate the tatoes do as well or better even than Michigan potato crop. That Michigan grade of potatoes which they are sell- the late planted. Then, too, in some does not show up in the carload move- ing, grading will become a much more sections of the state the danger of ment of the crop as well as Wisconsin, profitable operation in connection with early frost is so great that it is always Minnesota and Maine, is partially due the potato business than is the case at hazardous to plant potatoes late in the to the fact that so large a percentage the present time. of the Michigan crop is hauled to market by wagon, auto and truck.

Grading.

Michigan is probably sticking more closely to the grading of potatoes in accordance with the recommendations of the Bureau of Markets than any other state in the Union. This is largely due to the fact that the Michigan Potato Growers' Exchange, the Gleaners' Clearing House, and the dealers, all realize the advantage of grading when it comes to shipping in carload lots. Very little complaint is heard from the growers who are selling through the cooperative organizations. They realize that the benefit of the grading comes back to them direct. Growers who are obliged to sell through dealers in some cases are opposed to the grading because they feel that they do not receive much, if any, benefit from it. The dealers should, however, be able to pay better prices for graded potatoes than they could pay for those

A Summary of Conditions in the Potato Industry of which is more responsible for the high the State as Made by Prof. C. W. Waid of the M. A. C. After Careful Study



U. S. Grade No. 1. Any grower who advantage of good seed. potatoes are large enough for Grade

ence is made to the use of motor sell according to grade. As a result, is the case with cut seed. trucks. Potatoes are being hauled at practically nothing is done on the rethe present time into Detroit, Grand tail market to encourage the consum-Rapids, and other desirable markets ers to buy according to grade. Then,

The Use of Good Seed.

difficult, if not impossible, to estimate likely to be surprised at the small size case the whole seed gave the best rially reduced per unit, that is, a wellvery definitely how much more the of the potatoes which go through the stand. The precaution which it is nec- fed crop of potatoes, when accompacause of this competition than they tion of grading it is not possible to seed is that it be secured from heal- etc., will give a large yield per acre There is another phase of market- large enough for the first grade get in small potatoes will be transmitted and the maximum growth. the percentage increased by the use Another very serious defect in con- of such seed. Whole seed will usually ment of the selling of the Michigan nection with the grading of potatoes is give a better stand also when planting which has been made by many Michipotato crop. In this connection refer the fact that no retailer is required to is done during cold, wet weather than

Late Planting as Compared with Early Planting.

The present season was one which from long distances, hauls of thirty, too, practically all of the potatoes will give encouragement to the late forty, and fifty miles are not uncom- which are hauled into market other planting of potatoes, especially in the This means that there will be less This means that the men who than in carload lots are taken in un-southern half of the state. However, trouble with diseases and that the cost ket brought to their door. In view of handling the potatoes in this manner has been settled by the results of this the fact that the car shortage problem to grade in accordance with the plan one season's work. Some years when season.

Feeding the Crop. Perhaps the present season, more There is probably no one thing

cost per bushel of a large percentage of the potatoes grown in Michigan than the fact that the crop is not sufficiently well fed. Manure is not available in sufficient quantity on the majority of farms to enable the grower to use as large a quantity as he would like to on the potato ground. growers have not as yet learned to use commercial fertilizer to any great extent. When we realize that the potato which are not graded. 'The operation than any other in recent years, has growers in Maine are using as high as in the state of the potato flour and emphasized the importance of the use a ton of commercial fertilizer to the starch manufacturing plants has help- of good seed. A considerable quantity acre, in addition to the available maed out a great deal so far as finding of inspected seed was distributed in nure and that some Michigan growers a market for the number two potatoes the various counties throughout the are using fifteen to twenty tons of In many sections of the east, Maine, is concerned. There are, however, cer- state and as a result it was possible manure to the acre and others are ustain phases of the grading situation to secure a great many comparisons ing from five hundred to one thousand which always have been, and are still between the yield of good and poor pounds of commercial fertilizer, it unsatisfactory. For one thing, some seed. As a result of these demonstra- would seem that the time has come dealers insist on using screens which tions, hundreds of growers have learn- for Michigan growers to give more atare larger than necessary to make the ed to appreciate more than ever the tention to the feeding of the crop than they have been doing in the past. It cares to determine for himself what Whole as Compared with Cut Seed. Would, however, be unwise to use a The season being unusually dry and large amount of commercial fertilizer has greatly improved since the organ- No. 1 may do so by boring a one and hot during the month of June, has em- until the grower is sure that it will be seven-eighths-inch hole in a shingle or phasized more than ever the advan-profitable for him to do so. Demoners' Exchange and the more extensive board. The potatoes which go through tage of the use of whole seed when strations along this line are one of the operation than formerly of the Glean- the hole of this size are No. 2 in size. planted in a dry soil or during a hot serious needs. When the potato crop ers' Clearing House. The competition Those which will not go through are period. Many instances of a compari- is fed properly much less trouble is which has thus developed is a great large enough for the No. 1 grade. Any- son between whole and cut seed have experienced in the control of diseases benefit to the potato growers. It is one who will try this experiment is been observed. In practically every and the cost of production is mategrowers realize for their potatoes be- hole. Of course, in the actual opera- essary to take in the use of whole nied with good cultivation, good seed, would otherwsie. There is no question, draw the line so closely, but in some thy, productive fields, or better still, and at the same time each bushel will however, but what prices are much cases it appears that screens are used hills. The danger in the use of small be produced at a lower cost than is the better than they would be without this or the method of operating the screen whole seed is that certain diseases case where the plants are not given a is such that many potatoes which are which naturally cause a production of sufficient amount of plant food to make

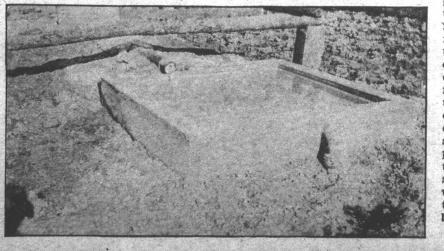
Disease Control.

One of the decided steps in advance gan growers in the control of potato diseases is the use of disease-free seed. The growing of seed plots is getting to be a common practice among Michigan grower. Hundred of men are hill-seof production will be lowered. As previously stated, the feeding of the crop also has much to do with the control will resist and overcome many troubles which will detrimentally affect a plant grown on impoverished soil. Seed treatment is also becoming more common among the growers of the state than was the case a few years ago. This is reducing the injury from scab and black-scurf, as well as black-leg in some parts of the state.

Leaf-Hoppers.

One of the newer pests in connection with the growing of the potato crop is what is known as the leaf-hopper. This is a small insect which, as the name indicates, hops or flies quite readily when disturbed. It is different from the aphis in appearance and ac tion, the aphis being more symmetrical in form and not so lively. The present season has emphasized the danger from damage done by this insect more than any previous year. The hot dry conditions seem not only to favor the development of this insect but at the same time, these conditions made the plants more subject to injury. The trouble which is known as tip-burn or sun-scald, proves much more serious when the leaf-hoppers are present the plants in any considerable necessity bers. Practically no fields have kare (Continued on next pagi).

A Cool Drink by the Wayside





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News of the Agricultural World

EIGHTY-FIVE PER CENT OF OAK- any interest in a farm or farming. LAND'S FARMERS JOIN THE FARM BUREAU.

welded together ready for business. was guilty. The exact figures have not yet been I am writing, because I cannot re- ory board to the secretary.

before the holidays. Enthusiasm over have promptly acquitted. the movement is as keen throughout How long this persecution will be

tion to work for betterment of farm- selves. ing conditions. One of the first steps more easily and at better prices.

But this work cannot be done by a assist in planning and executing movements for the farmer's benefit."

ILLINOIS DAIRYMEN NOT GUILTY.

RESIDENT Milo D. Campbell, of sociation, writes us as follows reday were found not guilty of profiteer- understood. ing, by a jury of eight consumers:

I have just received word of the acquittal by the jury of eight farmers, milk producers who have for some weeks been on trial at Chicago.

Two years ago, nearly, they were inmilk for the month of October, 1917.

and accusations. When the jury was those who signed notes. friends who were farmers, who had on this state's participating in the or- cured to combat it.

cles, and after the prosecutor had raid- 12, was unanimously adopted. Secreed the offices of the milk producers tary Bingham was selected as the vot-THE membership drive of the Mich- and taken all their books, correspond- ing delegate, and Ray Potts, of Maigan State Farm Bureau came to ence and files to his own office to find comb county, Roland Morrill, of Beran end in Oakland county last week, proof of guilt, this jury has said rien county, James Nicol, of Van Burwith close to two thousand farmers promptly that not one of these men en county, and Fred Cornair, of Sagi-

compiled. The tally will show, how- frain from reavowing my faith in the scheduled to begin Monday, November Cleveland and Chicago. The other Coopersville. 10, in Barry county, and will cover trials were had under just as great in-Montcalm, Allegan and Kent counties justice, and in each instance the juries

the state as it is in Barry county and continued, is not known, but at pres- O Agriculture appeared before the prospects are that at least one hun- ent there are no other criminal suits House Committee on Agriculture in dred thousand farmers of Michigan pending. At the bottom of the whole support of the house bill prohibiting will be united solidly within the year. procedure have been two motives, and the use of food containers of deceptive · Already C. B. Cook, Oakland county only two. Politics within the cities, appearance. agricultural agent, and other leaders and selfishness of the interests, who in the movement in that country, are see in the cooperation and organiza- prohibit the use of partly filled conpreparing to put the county organiza- tion of farmers fading profits to them tainers or those designed in such a

The consumers of our cities will be quality is other than appears. Repreto be taken during the winter months fair with us when we can get the truth sentatives were present from the Nawill be perfecting of marketing asso- to them. More and more our great tional Wholesale Grocers' Association ciations around the county under the metropolitan press is becoming con- and from candy and spice manufacturauspices of the County Farm Bureau vinced of the justice of our cause, and ers and others affected by the bill. It to help the farmers in the coming year the advancement we are making with was contended that the bill should not place their products on the market sore feet and over rough ground is be so strict as to require packages and marked and sure.

few men. "Farmers of Oakland now we are American to the core; we ask some liquids it was advisable not to must realize they have an organization for no favoritism; we make no threats quite fill the containers. ready and able to take up and solve of violence; we do no picketing; we their problems," Mr. Cook said. "It is ask the right to cooperate, to collecup to them to use the organization, attively sell our own products; but we tend meetings that will be called and do not seek to impose our cooperative efforts on anyone with whom we deal. We allow the purchaser to deal with us or not, at his pleasure. In other words, we concede to the purchasers of our products the "open shop." We are against radicalism and always the National Milk Producers' As- have been. We believe in the God and constitution of our fathers, and garding the trial in Chicago of the these are days when we should assert eight Illinois dairymen who last Thurs- the same with a voice not to be mis-

FARM BUREAU ACTIVITIES.

dicted for having gotten together in the Farm Bureau movement is shown were the most numerous in fields in the city of Chicago, at the request of by their action at Owosso last Satur- the upper peninsula. Certain varieties Herbert Hoover, food administrator, day to consider ways and means of apparently are more subject to injury and for agreeing upon what they be continuing the county farm bureau by this insect than others. The Bliss lieved would be a fair price for their work. All funds for the agricultural Triumph, Irish Cobbler, and Green agent's work had been exhausted on Mountain are among those which are The price agreed as fair, was \$3.42 the day of the meeting and since it most susceptible. The Late Petoskey per hundred pounds for 3.5 per cent was impossible for the state organiza- and Smooth Rural types are less sus-From that time until now the prose- in that county for several weeks to immune to the trouble. Early planted cution of these eight men has gone on come, something drastic had to be potatoes because of the fact that they through the public press of the city of done. However, the situation was met approached maturity during a dry por-Chicago. It took weeks to secure a by twenty-five farmers putting their tion of the year, were much more ser-These facts should be known to ev- raising \$2,500 on the spot. This is am- late-planted crop. Reports vary, not ery citizen of this country, who be- ple for carrying the work until a mem- only from growers, but from pathololieves in fair play: That the defend- bership campaign can be undertaken, gists and entomologists in different ants were farmers living outside of Such a campaign was unanimously en- states as to the effect of the use of Chicago and outside of Cook county; dorsed by the representatives present, nicotine-sulphate in control of this inthat they were being tried in Cook It is only fair to state that the board sect. For one thing, it is very difficounty because their meeting was held of supervisors of the county had for cult to apply this material in such a there; that the judge refused to order some time been providing funds to car- manner that the insects will be hit a change of venue, to any other part of ry the work along, but that they had with it. Some who have used this ma-Illinois. These men were tried by a gone as far as they felt was wise until terial claim that it has been helpful, jury of consumers, who had been in more concrete evidence of the de- while others do not feel that they seflamed for two years, by the constant mands for the work by the farmers cured any appreciable results. There talk of "starving babies," "dying of themselves was at hand. This meet have been more reports of favorable hunger for milk," "highwaymen," ing provided the evidence and a num- results secured from the frequent and 'thugs," and a hundred other epithets ber of the supervisors were among thorough use of Bordeaux than from

low any man to sit who had ever been of the State Farm Bureau held in it did in many places this present seaa farmer, who had any relatives or Grand Rapids last week, a resolution on, some effective means must be se-

ganization of a National Federation of But notwithstanding all these obsta- Farm Bureaus at Chicago September naw county, were to act as an advis-

Ottawa county goes on record as anever, that the organization has enroll- American people. They can be fooled, other of the progressive counties of ed eighty-five per cent of Oakland's excited and frenzied for a time, but the state in voting without a dissenter, when the test comes they are firm in that a membership campaign for a A follow-up campaign which will be the doctrine of justice. This is the strong farm bureau organization be conducted by the county organization third trial by jury within the last three started as early as it is possible for by townships in the next few weeks is months of milk producers, for having the state organization to reach them. expected to augment this total greatly. dared to talk over with each other fair Nearly three hundred farmers attend-The State Farm Bureau drive was prices for their milk-San Francisco, ed the meeting, which was held at

FOR FULL FOOD CONTAINERS.

The bill amends the pure food act to manner as to indicate that quantity or

bottles to be filled full in all cases. It We are proceeding along safe roads; was pointed out that in the case of

CONDENSED MILK SCARCER.

THERE is a continued strong demand for condensed milk, with the supplies very short on the spot. The sugar shortage continues to hamper the output of the condensaries. Evaporated milk shares in the firmness of the market for sweetened, and prices on this product also are unsettled. The market for miscellaneous brands of evaporated are held quite firmly.

THE POTATO SITUATION IN MICH-

(Continued from preceding page). HE seemingly unlimited faith of found this season that did not have at the Shiawassee county farmers in least a few leap-hoppers in them. They tion to make a membership campaign ceptible. However, no varieties are names to notes for \$100 each, thereby iously injured by this insect than the the use of nicotine sulphate. If this inselected, the prosecutor would not al- At a meeting of the executive board sect continues to prove as serious as



Making Alfalfa Safe

Apply Ground Limestone or Marl this Fall and Order Northern Grown Seed Early .- Prof. J. F. Cox

more production at home.

ing production by the intelligent hand on a firmly rolled seed bed. ling of alfalfa along with other crops. able than red or alsike clover.

versally employed than before.

grown, particularly northern grown, same song today. alfalfa seed was planted. The importaan early date.

It was the writer's good fortune to you can chew.' spend a day in August with the Hon. One of Mr. Woodman's chief interests afalfa will come through our worst was the establishment of alfalfa grow- summer droughts." ing on a successful basis, and judging game," and the rules, as Mr. Woodman a firm seed bed." expresses them, are: First, to secure The same methods were employed northern grown seed, Grimm, Baltic or at an earlier date by Mr. William Nelare not available Common Alfalfa of

URING the war the chief aim of northern origin. Second, to lime or America was "To Make the marl the land six months or a year World Safe For Democracy," by previous to planting alfalfa for best hitting the line hard at the front and results. Third, to inoculate, using culby intensifying efforts leading towards ture from the agricultural college or soil from a successful field. Fourth, A number of Michigan farmers have seed in April or early June under Kaladone their part in the way of increas- mazoo county conditions. Fifth, plant

One of the striking things noticeable They have proven that not only is al- about the alfalfa crops in Kalamazoo falfa a safe crop for Michigan, but un- county was that the new seedings had der proper conditions is more depend- withstood the summer droughts much more successfully than had the clover The increased cost of clover seed, seedings. Even on very light sandy the many clover failures and the de loams, and with companion crops of mand for leguminous forage has caus- grain, alfalfa had come through suced widespread interest in alfalfa. A cessfully. As Mr. Woodman stated it, greater acreage has been seeded alfalfa is not only a very profitable throughout Michigan than ever before, crop, but is the foundation for successand the percentage of successes with ful potato, corn, and grain crops to alfalfa have been noticeably more nu- follow. Soils needing organic matter merous than previously, very likely are particularly benefited by this crop. due to the fact that more is known Should one of the old-time alfalfa enabout growing the crop, and liming thusiasts, of the type that sang the and inoculation are practices more uni- praises of alfalfa from the institute platform, ten or fifteen years ago, come Perhaps the prime reason that suc- to Kalamazoo county, it is not likely cess with alfalfa has been more easily that he would command a very large obtained recently is due to the fact audience. There are too many sucthat a larger percentage of American cessful alfalfa growers singing the

On Mr. Woodman's home farm in Kaltion of Turkestan seed was cut off by amazoo county, his son John is practhe war and this variety, which does ticing what his father preaches and is not successfully withstand our winters following successful alfalfa stands fortunately was not available. Those with notable potato crops. John says intending to plant alfalfa next, year that alfalfa is "the easiest, and surest should secure northern grown seed at leguminous hay crop, if you follow directions and don't bite off more than

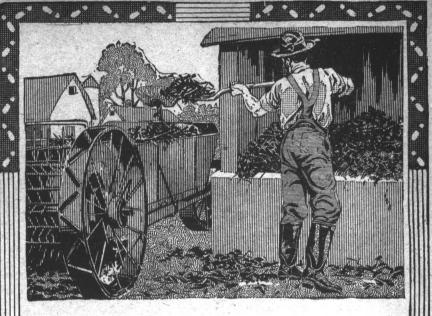
County Agent Eckard, of Van Buren Jason Woodman just before he termi-county, tells all those interested in nated his many years of service as ag- alfalfa who call on him, to "plant earricultural agent of Kalamazoo county, ly, and give plenty of plant food, and

Van Buren county is the home of by the many thrifty fields seen during Fred Wing whose performance of growthe day, his work in Kalamazoo county ing seven and one-half tons of alfalfa will be felt for many years to come, per acre was chronicled in a spring As Mr. Woodman tersely states, in or- issue of the Michigan Farmer. As Mr. der to succeed with alfalfa, it is nec- Wing says, he did it by "using enough essary to "stick to the rules of the lime and phosphorous and planting on

The same methods were employed Cossack preferred, or if these varieties son, of Lawton, Michigan, known as (Continued on page 602).



Four-year-old Alfalfa Field of O. Nelson, Cheboygan County.



Nothing like Lambertvilles for working in the Barn yard

THE ACIDS AND AMMONIA manure water won't rot the pure new rubber of these super-work boots.

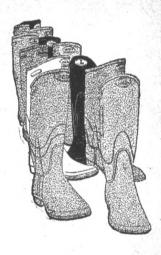
Next time you buy rubber goods look up the dealer who sells Lambertville Rubber Footwear and have him show you Snag Proofs. These are extra thick, pure new rubber, properly cured. Feel their soft, elastic texture. Plenty of wear resistance there. You'll not care to look any further for rubber footwear this year.

There are four other qualities in the Lambertville line. You know them by the green label. Lambertville means "most for your money" in rubber goods.

It is nearly fifty years since the Lambertville Rubber Company commenced making Snag Proof rubber goods, and their line has grown with the years until now there are five green label qualities and more than thirty styles with the green label.

The best dealer in town sells Lambertvilles.

Look for the green label.



A Green Label on Every Pair of Lambertvilles.



SNAG-PROOF

7 layers of pure rubber friction ned. Thick and wear resisting yet light in weight.

L-QUALITY

Duck vamp where the wear omes. Pure rubber properly

REDSKIN

Red rubber with friction of felt lining. Tough and long

Pure gum, ribbed, or with heavy thick vamp.

WHITESKIN

White rubber full duck lined. Made by an entirely new proc Extraordinary value

LAMBERTVILLE Lambertville,



MICHIGAN LIVE STOCK INSURANCE COMPANY

INDEMNIFIES Owners of Live Stock - Horses, Cattle, Sheep and Hogs

Against Death by Accident or Disease

308 Davidson Building,



THE HOG MARKET.

NEVER in the past has there been such eccentric hog markets as those experienced in Chicago during the present year, with high records early in the year and a tremendous decline in prices later. Conditions are far less favorable for sellers of hogs today than a year ago, when the federal authorities were stabilizing hog prices. This upholding of values is a thing of the past, and stockmen have to depend upon what the packers are willing to pay them. Quite recently the price range for hogs has been the narrowest seen in a long time, with the bulk of the hogs offered on the market selling within a range of eighty cents per hundred pounds. The marketing of the new crop of hogs is increasing steadily, with numerous pigs included in the offerings, and youngsters sell much closer to the prices THE SCRUB STALLION DISGRACE paid for matured hogs than usual. Within a short time the prime heavy butchers have sold higher than prime light butchers or the choicest light bacon hogs of 190 pounds or less. The sin, has one opinion of scrub stallions. great fall in prices for hogs has helped This is the way he expresses it: along the downward movement in pricfrom our shores. Exports of lard and numbered 673; in 1917, 260; in 1918, comparing with 19,245,000 pounds for hoped that scrub sires soon will be making only a small part of the hog, are used." while the demand for them is enorally reduced receipts helped strengthen ed with thirty-five in 1918. prices for hog products. While no Grant county still leads in owner-

THE LAMB MARKET.

wethers are in such good demand at in 1919. comparatively high prices there should be such a preponderance of poorly fattened lambs shown in the Chicago stock yards week after week. Only a prime fat lambs with their fleece free as a food. The council represents the cluding such points as Chicago, Oma- minion. Bay City, Michigan from the prices paid for fat stock. es decline.

Many of the lambs come on the market too heavy to suit feeders and with too little flesh to suit the killers, and the packers get them on pretty much their own terms. Feeding lambs have been selling all along at good prices when desirable, and great numbers have gone to feeding districts from Chicago and the Missouri River markets. The demand for breeding ewes keeps up well, with yearlings mainly called for, and a liberal premium is paid for the best lots. Killing yearling wethers are good sellers, but lots of ewes go extremely low, culls, selling down to \$3 per hundred pounds. In many parts of the country farmers are taking up sheep breeding more or less extensively, encouraged by the high prices paid for fat live muttons and the high prices paid for clips of wool.

GROWS LESS IN WISCONSIN.

MR. A. S. ALEXANDER, in charge of stallion enrollment in Wiscon-

"Sires of this disreputable and detes for provisions, as has the great fall-rimental class will soon be a negligible ing off in the exports of provisions quantity in Wisconsin. In 1911, they bacon from the Atlantic seaboard for 213; and in 1919, 170; a decrease of a recent week were only 7,258,000 lbs., 20.2 per cent for that year. It is to be the corresponding week last year, the wholly eliminated by our leading horsestrike of the longshoremen being very breeding counties. They are a dislargely the cause. Fresh pork has not grace to all implicated in their mainbeen reduced in prices anywhere near tenance and a menace to the horse inas much as cured meats, pork loins dustry of the counties in which they

Fifteen counties have no scrub stalmous. It is said by provision special- lions. The number of scrub sires has 1sts that the long interest in provisions decreased in thirty-three counties in has been liquidated and that the mar- the last year. Nine counties increased ket is in better shape to respond to such sires to a total of twelve head. any new influence. The recent rally In 1919, eleven new scrub stallions in hog prices which followed materi- were licensed in the state, as compar-

one expects to see hogs sell as high ship of pure-bred stallions with eightyas during the war, there is every rea- seven head, compared with ninety-two son to expect that the hog industry in 1918, while Dane county comes next will continue a highly profitable one. with fifty-one in 1919 compared with Prices are far higher than in pre-war fifty-two in 1918 and seventy-four in times. Three years ago hogs sold at 1917. Saint Croix follows with forty-\$9.59 to \$10.35 and four years ago at two head, Iowa with forty-one, and Vernon with forty. Pure-bred sires have fallen off twelve head in Waukesha county and ten each in Chippewa and Richland counties. They have increased in Burnett, Douglas, Iowa, I seems a great pity that at a time Juneau, Marathon, and Pepin counties. when fat lambs and fat yearling Vilas county had not a stallion licensed

TO BOOM MILK SALES.

small percentage grade high, and they C ANADIAN dispatches report that sell at a big premium over the prices C the National Dairy Council of Otpaid for warmed-up flocks and flocks tawa has started plans for a campaign of lambs with their fleece full of burrs. to rise fund of \$75,000 with which to The burry lambs are sold as much as conduct advertising looking toward the \$1 per one hundred pounds lower than increased use of milk and its products from burrs. With the termination of affiliation of the organizations of prothe season for marketing range sheep ducers and distributors of milk and and lambs, the western markets, in-dairy products throughout the Do-

ha, Kansas City, and others, have to The advertising fund is to be raised depend upon shipments from feeding by an assessment on producers and districts, and just now large shipments distributors. The council at a special are seing made from northern Wiscon- meeting passed resolutions to be forsin and Michigan. Most of these were warded to the government protesting transferred there from the drought- against the high duty on dairy machinstricken northern ranges several ery and bottles and the high cost of months ago, and most of them are feed for dairy herds, stating that there shipped in greatly lacking a finish, could be no reduction in the cost of causing their sales at large reductions milk and milk products until feed pric-



rice Phelps

You or your neighbors know me.
I'll Put This Magnificent \$150.00

I'll Put This Magnificent \$150.00 IASTERTONE Phonograph in Your Home—I'll Send You a Selection of Fine Records to Play It With—All Without One Cent Down. You Satisfy Yourself

Free Offer

-to the honest, substantial folks, like the hundreds of thousands that have bought my fine buggies and carriages in the last 20 years. I'll trust you to the limit - for I know that you do business on good faith, just as I do. I went into the phonograph business some years ago because I believed there was a way to put the biggest, finest phonographs in your homes—at half or less than half the prices charged for such machines.

Now my plan is ready for you. It beats anything I have ever done or anything anybody else has ever done with a real phonograph. First you get it in your home to try absolutely free. Then you send me the low price only because you are perfectly satisfied—because you would not part with the MASTERTONE. Or, if you are not satisfied I'll take it back, and you keep your money.

I'm Making This You Simply Fill Out and Mail the Coupon

Send no money—no pay of any kind. Back comes the MASTERTONE and with it six fine record selections to play.

It is one of the three greatest phonographs in the world. Experts say the MASTERTONE reproduces the human voice, the piano, the violin, the music of famous bands with clearness, sweetness and naturalness all its own. You'll notice the freedom from roughness when you compare

You use the phonograph and the records as your own for ten days. Play it for your family, your neighbors, your friends. Take a vote of the whole family on it—and if you don't say it is as fine as any phonograph costing twice as much—if you want to part with it for any reason—I'll take the phonograph and the records back and you won't be out one cent of the purchase price. of the purchase price.

Big, Beautiful Cabinet in Mahogany or Walnut

You have your choice of either Black Walnut or Mahogany finish. My royal MASTERTONE has a big artistic cabinet—48 inches high, 20 inches wide, 23½ inches deep—the latest art style—as beautiful as any you ever saw at any price. Make your choice—fill out the coupon—anywer all the questions estimatorily—do it today. answer all the questions satisfactorily—do it today. I'll send the MASTERTONE to you at once.

Hear it and you will know why I am so willing to put it in your home without any money down —why I am willing to send it to you with six fine record selections—so you and your family and your friends can appreciate its real value at first

You Try My **MASTERTONE** In Your Home Ten Days. If You Want to Keep It Send Me Only

How can I sell it at that price—half or less than half what such phonographs cost? Simply by selling direct to you—by having no expensive connections—no high-priced sales. methods. This advertisement is my only salesman. At my one small profit my MASsalesman. At my one small profit my MAS-TERTONE makes many sales, because every one of your friends will want a MASTER-TONE when they hear it, and see how much better it is than the ordinary.

I send you my written absolute Guarantee of my MASTERTONE. I can not begin to de-scribe its superior mechanism—the 29 ways in which it excels other phonographs. You have to hear the MASTERTONE Reproducer—

the greatest advance in phonographic improvement—with genuine imported India mica diaphragm. You have to hear its Patent Tone Modulator. You have to enjoy the records played by the MASTERTONE'S velvety, silent motor.

My MASTERTONE plays 4 to 6 records at one winding. Automatic Stop stops the machine at end of record.

Now—fill out the coupon today. Don't delay —for I want you to get the MASTERTONE as soon as possible. The first in each neighborhood will be the fortunate ones—for there will be a rush to take advantage of my offer. This is the first time I have ever published it.

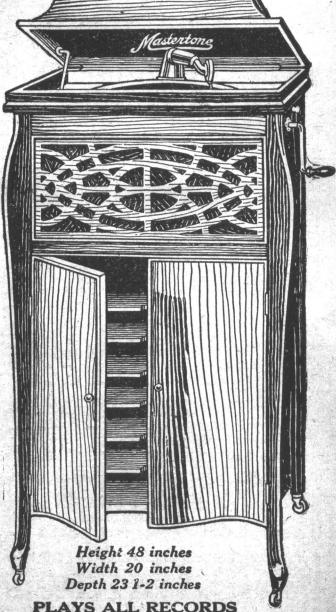
Whether You Order My MASTERTONE or Not, Get My Free Song Book

Write for the MASTERTONE Book whether you order or not. Your name and address on a post card will bring you full description and illustration of the phonograph in colors. I will also send you FREE my Book of Old Favorite Songs—the old-time melodies that every-body loves—50 famous songs—words and

H. C. Phelps, President, THE PHELPS FACTORIES, Dept. 105, Columbus, Ohio

The Phelps Factories, Depts 105, Columbus, Ohio Name......Town. Shall we ship by freight or express?...

NOTE: We recommend that you have Phonograph shipped by express to insure its reaching you promptly.





There Is REAL ECONOMY in Using

ORANGE PEKOE TEA

"The Tea of Sterling Worth"

Black, Green, or Mixed-Sealed Packets Only With PRICES PLAINLY MARKED for Your Protection

Heat the Water They Drink With the Cobs They Leave

TANK HEATER (Formerly Called Nelson)

t as any other heater and with less fuel. Made I with cast flanged joints bolted and packed with one eams to leak or rust. End of tank and pipe cast in . Won't rust out. More than one inch of clearance for on trust out. More than one inch of cle les easily removed. Burns straw, cobs. wo ck NOW. WRITE FOR FREE CIRCULAR.

Hudson Mfg. Co., Dept.51 , Minneapolis, Minn





Fertilizing with Straw

By Earle W. Gage

permitted to go to waste. It has been the condition of the soil. heard of the fertility shortage.

phosphorus and potassium:

	2017			Presen
Crop.	Nitro.	Phos.	Pot.	Prices
Oats	12.4	1.6	20.8	\$ 9.63
Wheat	10.0	1.6	18.0	8.12
Rve	10.0	2.6	14.0	7.00
Barley	12.0	1.8	18.2	8.9
Buckwheat	25.0	1.4	19.0	12.18

The Illinois Experiment Station has conducted many extensive experiments where crop residues, consisting of the corn stover, wheat and oat straw and clover grown on the land is returned to the soil as a source of humus and plant food. They report as an average of four-year results with wheat, a yield of 27.6 bushels where crop residues were turned under, and 28.8 bushels where manure was used. In this only slightly inferior to manure. The results of other experiments reported were as follows:

Treatment.	No. of Crops.	Per Acre.
Lime-potassium and residue		\$204.88
Lime-potassium		180.95

decry the passing of the day of natural ducts." fertility, and critics to a day set the It should not be expected that the to maintain their producing powers.

ley and rye crops were increased from straw not been added. same process as a lamp wick delivers in wheat three-fourths, corn two-thirds oil to the flame—it keeps the moisture

HE American farmer may beat at the working point. Experiment stathe Hun at his own game with tion workers calculate that spread the straw, millions upon millions straw will be worth from \$2.50 to \$4.00 of tons of which have heretofore been per ton to the farmer, according to

fully demonstrated, both on our farms, If you have a light soil which is deat several experiment stations, that ficient in organic matter, there is nothspread straw replaces commercial fer- ing cheaper or better than straw. It tilizer. Had our farmers been spread- will serve to keep the soil from blowing the straw they have wasted for ing, and may thereby save a good the past generation, less would now be crop in the start, when the winds often play havoc. Spread straw will Few farmers really appreciate the hold snow on the ground during the fertilizing elements contained in var- winter, and save the wheat crop from ious straws commonly produced and winter-killing. Even a thin coat will wasted in this country. It is not sur- catch and hold the snow, causing it to prising that increased yields result melt evenly, thus not only serving as from spreading straw on land, when a moisture retainer for the time when we come to know that a ton of straw needed, but insure the tender plants contains the following composition and against frost-injury. This insures the value at present prices of nitrogen, wheat crop a good healthy start early in the spring, when moisture is de-Pounds of Plant Food in One Ton of manded to insure even, quick growth.

Spread straw, evenly distributed, is a valuable nurse for alfalfa. The straw protects the tender plants from the scorching heat of the sun and acts as an insurance against baking ground, giving the plants a good start. It also keeps the wind from whipping off tender plants.

In general farm practice the value of straw in the maintenance of soil fertility has come to be recognized by many investigators and its use advocated by nearly all experiment stations. Dr. Russell, of the Rothamsted Station, England, dealing in an article with the possible sources of potash for English farmers while the supply of potash is cut off from Germany, recommends among other things the use test the crop residues proved to be of damaged straw. In one of the experiments at the English station where wheat has been grown continuously for half a century, both grain and straw being removed, the need of potash is becoming more marked each year. In commenting upon this experiment the Illinois station says:

"If the wheat straw, which contains more than three-fourths of the potas-Nevertheless, in view of the wonder- sium removed in the wheat crop were ful fertilizing powers of various straws, returned to the soil, the necessity of we learn with considerable consterna- purchasing potassium in a good systion, that vast amounts of straw is per- tem of farming on such land would be mitted each year to go to waste, at least very remote, since the supply Farmers, whose fertilizer bills grow would be adequately maintained by the larger and larger, without considera- actual amount returned in the straw, tion of these facts, permit large quan- together with the additional amount tities of natural fertilizer to go to which would be liberated from the soil waste in their straw stacks. Farmers by the action of decomposition pro-

hour when agriculture will fail because application of a ton of straw will give of want of German potash and com- an immediate crop increase equal in mercial fertilizers, permit their crop value to the cost of the plant food eleresidues to rot within sight of fields ments contained. This is doubtless needing only a coat of straw annually due to the fact that the fertility in straw becomes available only upon de-A New York dairyman, who also composition of the straw. This is demmakes it a business to produce a cer onstrated by the continually increastain amount of wheat in his rotation, ing yields obtained by the Illinois staincreased his wheat production by ten tion by the turning under of crop resibushels per acre by spreading straw dues. But the amount of plant food which could not otherwise be used, that had been removed from the soil over the land. He found the oat, bar- would not have been returned had the

eight to ten bushels per acre by the Muck and very sandy soils are in same method of using straw. Straw need of potassium more than the heavis invaluable during a dry period in ier types of soil. These light sands the growing season. It has been found are also especially in need of organic that a ton of straw will absorb two matter and therefore, it seems that tons of water, and deliver it to the the proper place to apply straw is on growing crop when needed. It also the sandy soils. This is true when we adds humus to the land exactly on the take into consideration the fact that (Continued on page 588).



KANSAS TO HAVE A STATE FARM BUREAU.

REPRESENTATIVES from forty of the fifty-seven farm bureaus of Kansas approved the formation of a Kansas State Farm Bureau. All bureaus in the state will be invited to consider the ratification of the constitution and become members of the state bureau.

The movement is the outgrowth of the county farm bureau movement in the state. It was the evident intention and feeling of the delegates that the policies which had been in effect in the county farm bureaus would very largely guide the activities of the state association.

W. M. Jardine, president of the agricultural college, struck the keynote of the state bureau's purpose when he

"Personally, and speaking as a farmer, I believe we ought to have an organization through which all the farmers of the state could speak and act. I look to such an organization to supplement the valuable work of present farmers' organizations."

Three delegates were elected to attend the meeting of state farm bureaus at Chicago, November 12 and 13 when the organization of the American Federation of Farm Bureaus will be organized.

Chester H. Gray, of Nevada, Mo., attended the meeting for the purpose of explaining the formation of the Ameri- is always ready for anybody to play, can Federation of Farm Bureaus. He declared that fifteen states had asked music or couldn't come. for such an organization. The federation, he said, would give the farmers an organized voice such as that long ago perfected by commerce and labor.

DARK SPOTS IN POTATOES MAY BE DUE TO FREEZING.

I NTERNAL freezing injury, or frost necrois, occurs when potatoes are exposed to severe frosts, temperatures below twenty-eight degrees F. The tubers show dark blotches in the flesh when they are cut open and allowed to stand a short time. The spots are usually most marked at the stem end, but they are scattered irregularly through the outer flesh or in a fine network or ring. Ordinarily the injury is detected only upon cutting, although the affected tubers wilt more than the normal ones in storage.

Potatoes may actually be frozen solid throughout, becoming soft and mushy on thawing. As a result of coming in contact with a cold wall in storage, or being left above the ground before digging, potatoes may freeze on one side. Tubers injured in this way are easily sorted out.

"Turning sweet" is due to prolonged storage at low temperatures, twentynine to thirty-four degrees F., not to real freezing. Tubers that have never been frost bitten may show this injury.

The prevention of all three kinds of freezing injury is described in Circular 120 "Freezing Injuries to Potato sent fre request Wisconsin Experiment Station. Some of the suggestions are:

Dig the crop before severe frosts come.

Have a good thermometer in the room where potatoes are stored and keep the temperature above twenty eight degrees F.

When shipping potatoes during cold weather in a heated car, provide for some circulation of air from the stove to prevent black heart in the potatoes near the heat and frost injury in those in the outer parts of the car.



When Good Fellows Get Together

T'S likely to be pretty tame without some music. What you need is a Gulbransen Player-Piano to get them started.

Every fellow likes a chance to do his clog, or his stunt with banjo, mandolin or bones — or at least join in the chorus. And the Gulbransen no matter if some one forgot his Every song you ever heard of is available in player-rolls. The latest dance songs and love songs. The topical, joking songs from the new operas. The boisterous "all-together now" songs and the old close harmonies.

Below are a few songs that will wake up any crowd and give them the kind of a time that does us all good.

Every fellow will want his turn at the Gulbransen-it's so Easy to Play-and with fine expression, too. You never tried such an easy player.

Songs the Fellows Will Join in On

Glorious I Want a Doll Howdy Oh! Helen Stein Song Sweet Adeline Come on, Pa Pa Madelon The Wild Wild

Women

Say, Young Feller, Where'd You Get That Girl? Where Do We Go From Here,

There's a Meeting Here Tonight
A Hot Time in the Old Town
Pack Up Your Troubles in Your
Old Kit Bag
Does She? I'll Say She Does Boys?

Everybody Shimmies Now

There is so much pep and "come back" in the Gulbransen you can "just make it talk." Try it yourself at the Gulbransen dealer's. Try playing some of these songs. The dealer has them.

Then you will see why our trade mark is the Baby at the Pedals. Easy to Play! A real baby did play the Gulbransen just as shown in the picture and gave us the idea for our trade mark.

You can tell the Gulbransen dealer's store because he shows this Baby at the Pedals in his window and newspaper advertising. If you haven't seen it, write us for his address and our catalog.

NATIONALLY PRICED

Three models, all playable by hand or by roll, sold at the same prices to everybody everywhere in the U. S., freight and war tax Price branded in the back of each instrument at the factory.

White House Model \$675 Suburban Model Country Seat Model \$585

GULBRANSEN-DICKINSON CO. 825 No. Sawyer Ave., Chicago

la yer-Piano







BUY FENCE POSTS direct from for-est. Prices deliv-

Trained American Fox Hounds Rabbit and Skunk dogs all ages. Send stamp.
W. E. LECKY, Holmesville, Ohio-

Flemish Giant Rabbits, dark steel black. Garys 2 months old, \$3.00 & \$2.00 each. Pedigreed stock DAVID RAY, 709 Norris St., Ypsilantf, Mich.

Please Mention The Michigan Farmer When Writing to Advertisers

Section show-ing foundation

Natco Hog Houses
Natco Hollow Tile. The three hollow spaces filled with air in a Natco wall provide perfect insulation through which heat, cold or moisture will not pass.

Thus Natco Hog Houses are the Natco Hog Houses are wall in a Natco Hog Houses are the Natco Hollow Tile. The three hollow spaces filled with air in a Natco wall provide perfect insulation through which heat, cold or moisture will not pass.

warm in winter and cool in summer. Moisture does not condense on these walls as on other forms of masonry. And the smooth glazed surface of Natco walls is easy to disinfect—it affords no hiding-place for germs or vermin.

Natco Hog Houses soon pay for themselves in pigs saved. They cost almost nothing for upkeep—never need painting and seldom any repairs.

Write for our free book, "Natco on the farm."

Ask your building supply dealer to quote you on Natco Hollow Tile.

National Fire Proofing Company, 1296/Fulton Bldg., Pittsburgh, Pa.



FIRST OLD DETROIT NATIONAL BANK

ICHIGAN'S largest commercial bank, with a capital and surplus of \$7,500,000 offers the highest grade of service to those desiring a Detroit banking connection. Savings and commercial departments.

___ DETROIT =



\$18.00 FOR THIS FINE FUR COAT

Mads from your own cow or horse hide to your own measure. We tan and manufacture the raw hide into a warm serviceable coat for this small charge.

Send Us Your Hides We make up any kind of skin suit individual, desire—

Also Ladies Coats and Furs, Auto Robes. etc. We have been leaders in the tanning business since 1878 and guarantee satisfaction.

guarantee satisfaction.

Free Book of styles of Men's and Women's Furs.
Write for it today.

Reading Robe & Tanning Company.

110 East St. Reading, Mich.

AUCTION

Tuesday, Nov. 18, at 1 o'clock

at farm six miles N. W. of Charlotte; Eaton County.

Spanish Jack with papers; Spanish Jenny, 8 yrs. old, with 6 weeks old Jack by side; yearling Spanish Jenny; also 2 mares, cattle, farm tools, implements,

WM. N. SHAW. R. 10, CHARLOTTE, MICH.

CULL BEANS FOR FEED YOUNG-RANDOLPH SEED CO., OWOSSO, MICH.

Farms and Farm Lands For Sale

80 A. Big Michigan

Money-Maker, \$5400

This farm has yielded 300 bu. potatoes per acre, 30 bu. wheat, 60 bu. oats, other crops in proportion; on improved road, near fine R. R. town. Bumper crops from 55 acres machine-worked loam soil tillage, clay subsoil; 25 acres wire-fenced pasture; home-use wood; great variety fruit 2-story 6-room house, basement stock barn, poultry, hog, corn houses, &c, \$5400 gets all, past cash. Details page 75 Strout Fall Catalog, 100 pages farm bargains 23 states; copy free.

STROUT FARM AGENOY. 814 B. O. Ford Bldg. all, part cash. Details page 75 Strout Fall Catalog, 100 pages farm bargains 23 states; copy free. STROUT FARM AGENCY, 814 B. C. Ford Bldg., Detroit.

For Sale: Arbor Lawn Stock Farm of 110 acres, located roward road 7 miles from Howell, one of the greatest Holstein centers of the U.S. Clay loam soil, very productive, well drained, good buildings, tile silo and milking machine. On milk and mall routes. 2½ miles from depot, elevator and stock yards. A very pleasant home.

W. B. READER, Howell, Mich.

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

Michigan Farms Write for our free list of 50 DeCOUDRES, Bloomingdale, Mich.

400 Acre farm, two houses, two barns, running water, windmill, potato cellar. Can be bought right if taken before Dec. lst. Best of soil. Write ADELBERT MYERS, Barryton, Mich.

Mention The Michigan Farmer When Writing Advertisers

GROUND FEED. For Better Farm Profits

Grinding pays. And perfect grinding pays best. That means: use the sturdy, powerful, double-burr, and more-than-double-capacity

ROSS Improved DUPLEX Grinding Mills

Ross duplex burrs are adjustable and self-onforming. They cannot get out of line --cannot grind unevenly.

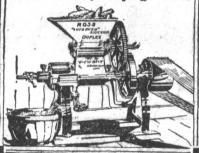
---cannot grind unevenly.

Uniform results are assured absolutely—whether you grind wheat, oats, barley, shelled corn, corn on the cob, fodder corn, milo maize, cotton bolls, alfalfa-grains or vines of any kind.

If you want a simple, reliable, powerful mill--contat will do a resi job right--find out now about the Ross Duplex, America's greatest all-purpose mill.

Get the Ross Duplex Catalog at your dealer's, or write us direct.

The E. W. Ross Co. SPRINGFIELD, Dept. B OHIO





Railway Mail Clerk Examination Prepare for this. Also Rural Carrier, Customs al Revenue, Departmental and other examina Free booklet M. Patterson Civil Servicil, Rochester, N. Y.



Potato Growers' Exchange

there are very anxious to get into the their members. cooperative marketing game on the

der operation in a very short time.

through the cooperation of the farmers and their county agricultural agent. These farmers have several cars of apples and potatoes to market this fall.

Alpena county has a county-wide association which has united with the five points in the county. The farmers of that county have several hundred cars of hay to sell this year, as well as large quantities of potatoes. Most of the produce and hay raised in this county will be marketed through the associations. All of these associations in Alpena county will be managed by one manager who will be located in Alpena City and will have men in charge of the loading at different points.

The town of Keystone in Grand Traverse county is the point where er association for Grand Traverse county. After seeing the success of the asthese farmers are planning to operate in the same manner.

they can get the benefit of cooperative valuable for the future. marketing this fall. There are several good live associations in Benzie counfor their crops by marketing their produce in this way.

The large Farmers' Cooperative Association at Freemont has just recently joined the Central Exchange. This siderable attention will be given to association is one of the most success. this phase of its work by the fortieth ful associations in the state and will international convention of the Young ful associations in the state and will Men's Christian Associations of North do a business which will reach close America, which is to meet in Detroit to one million dollars this year. They on November 19-23.

N association for the shipment of ship eggs by the carload to the large potatoes was organized at Amble cities of the east and handle many in Montcalm county on the sec- thousand bushels of grain, apples and day of October. Amble is one of other commodities. They also ship the heavy potato shipping towns of many cars of live stock and buy thou-Montcalm county and the farmers sands of dollars worth of supplies for

Mr. Dorr D. Buell, president of the same basis as the other associations Potato Growers' Exchange, has just finof the Michigan Potato Growers' Ex- ished a schedule of conferences for the change and they have hired Mr. Rush- local associations in the different parts more for their manager. Mr. Rush of the state. These were conferences more is a farmer who has had several of managers and directors of the locals years' experience in the potato hand- and were held in smaller groups so ling business and is the right man for there would be a larger per cent of the this position. The first conference The Gladwin Elevator Company is was held in Big Rapids where about located in Gladwin. Gladwin county sixty were present and took part in has been organized, with a member the discussions. The second confership of around four hundred members, ence was held at Cheboygan on Octo-They are preparing to handle every- ber 10 and about thirty were in attendthing which the farmers of that sec- ance. These men were from Cheboytion have to market. They have join- gan, Alpena and Presque Isle counties. ed the exchange and expect to get un- On October 11 the third conference was held in the library at Mancelona, Another association has been organ. with forty present from Antrim and ized on the Old Mission Peninsula and Otsego counties. The fourth conferthey have been purchasing supplies for ence was held at Escanaba and was some time and just recently took out attended by all of the managers of the a membership in the Potato Growers' associations of the upper peninsula. Exchange. On this peninsula the Most of the directors and all of the farmers sold 55,000 cases of cherries county agents were present, numberto the Case & Martin Pie Company, of ing about sixty-four. These men took Chicago, last summer, for \$3.10 per a very active part in all of the discuscrate. This sale was brought about sions. The last conference was held on the evening of October 17 in the Court House in Traverse City and was attended by eighty-four men from Antrim, Charlevoix, Grand Traverse, Kalkaska, Benzie, Welford and Leelanau counties.

At these conferences the proposi-Exchange and are loading potatoes at tions of standardization of the output of the locals was taken up and thoroughly discussed to the end that there could be a more uniform product put out by the different associations. Quality of product and pack of shipment so the consumer may get more value for his money and less waste in freight on produce that is sure to be unsalable when it reaches the market, were some of the main items taken up. Quality pack is the watchword of the Exchange and they never miss a chance to impress the importance of the farmers are now organizing anoth- high-class produce as the greatest asset of the associations, which will mean millions of dollars for the memsociation located in Traverse City, bers of the exchange who number nearly 15,000 at the present time.

All of the managers of the local as-The Marion Elevator Cooperative sociations are very watchful when it Company was organized at Marion on comes to grading of the produce which October 18, with a membership of 232 is packed by them, lest some inferior which is a very good number to have produce gets into the car, for they unlined up at the organization meeting. derstand that the farmer is now doing They have a good prospect of reaching his own marketing and anything which a membership of between five and six is not up to standard is a direct loss hundred. They also are to join the to the farmer and member of his asso-Potato Growers' Exchange and are ne-ciation. As long as the farmer sold gotiating for the purchase of the only to a local buyer and did not care what elevator in the town. Marion is one of kind of products he sold, or care what the very large marketing centers of the buyer did with them after he got Osceola county and of northern Mich- his money, there was no reputation to build which would pay him for better Thompsonville Farmers' Cooperative produce, but now the farmer under-Association was organized recently stands that through these associations with a membership of forty-eight, and he is standing behind his produce and expect to start business right away, so is in a position to build something

VENTION AT DETROIT

With keen realization of the neces-



TRAFFIC REGULATIONS.

THE large increase in the use of motor cars is bringing forth more laws for the motorist and it pays to be familiar with all the rules and regulations in the cities near the farm. When making long trips into other states it often saves money to inquire at the nearest garage concerning any special motor rules governing the motorists in that community.

Laws sometimes seem to be a nuisance but that is not the right attitude in which to look at them. A driver was arrested for speeding. He was greatly incensed and blamed the police department. Later his car was stolen and he called on the police as his best friends in time of need and they located the car. Now the danger to other drivers was very great when he was speeding, and the danger to his pocketbook was very great when his car was stolen. He began to realize that laws and policemen have their place in all communities and soon learned to have the greatest respect for both. When motorists learn that the laws are not made for the other fellow they will have less trouble and all travelers of the highways will receive more enjoyment from life.

There are also laws of common courtesy on the road that are not under police control. They are the laws of common sense and decency and they are deserving of much practice. A motorist who approaches a farm wagon loaded with hay or milk should not attempt to pass in a narrow stretch of road if a few seconds of waiting will enable the driver to pull out of the rut and give the motor car plenty of room.

The dimming of lights is necessary according to law. The careful driver will not only dim the lights but dim them soon enough so that the approaching car will not have to stop or nearly stop, while waiting for them to be dimmed. It is only courtesy to slow down when passing a car at night, especially if it is on a narrow road. One car must slow down or there is serious danger of accident. Don't expect the other fellow to slow down, each party must help in making the roads safe.

When in a large city observe the parking laws and don't take a chance on disobeying them just because the officer is not present. The parking laws are not unjust but made so that auto driving will be safer and there will be room for all the cars. It is only common courtesy to park in the right manner, even if no laws govern the act. In some cities laws are made governing the amount of time a car may be parked in one location. Offenders are often greatly disturbed at arrest for such a small offense. How would it be if automobile owners working in stores and offices all parked their cars all day long in front of their places of business? There would be no place for the shopper to leave his car within several blocks of his shopping place. It is surely practical to limit he time the car car stay in one because it is a convenience to the mass of the people to be able to stop, finish their errands in the vicinity, and move on their way.

It is said that farmers are having less accidents than city drivers. This is the reason given. Farmers have been in the habit of driving horses and farm machines. They know that it pays to "stop, look and listen" before the car tracks. They know the dangers from runaway horses. When they obtain a motor car they follow out the same precautions. R. G. KIBBY.



Dependable Priming Plugs



Equip Your Engine So It Sure-Fires When Cold

THAMPION Dependable Priming Plugs sure-fire cold motors because, with the priming cup right in the plug, the gasoline trickles down the core of the plug and drips from the sparking point where the spark jumps and is the hottest.

They are imperative in cold weather for the hundreds of thousands of cars that do not have priming cups, and are infinitely better for those that do, because priming cups let the gas in too far from the spark plug. Every car can be easily equipped with these plugs in a few minutes.

Price \$1.50 each.

Champion Spark Plug Company, Toledo, Ohio





Earn Big Money Cutting Wood



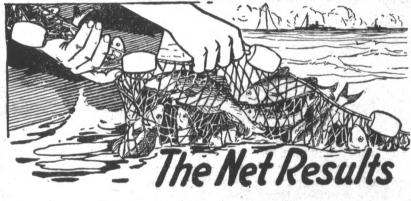


American Fence

Full gauge wires; full weight; full length rolls. Superior quality galvanizing, proof against hardest weather conditions. AMERICAN STEEL AND WIRE CO. CHICAGO

Please Mention The Michigan Farmer When Writing to Advertisers.





from your fertilizer will be greater if you use

ROYSTER'S

S.R.

The Fertilizer that made Fish Scrap Famous

F. S. Royster Guano Co.

Toledo, Ohio

Please Mention this Paper When Writing to Our Advertisers

CANADA HAS LARGE WHEAT

C ANADA'S yield of wheat for 1919 is placed at 193,688,800 bushels by the latest bulletin issued by the Dominion Bureau of Statistics. Earlier reports had indicated that the wheat yield would be considerably lower, but favorable weather and late rains in many districts brought a marked improvement before harvesting began.

Although this was considered a dry year, many districts produced record crops. Manitoba, generally had a good year, the biggest crops being harvested in the Brandon district, wheat averaging from twenty-five to thirty, and oats running better than sixty. In Saskatchewan the Regina district averaged twenty-five bushels. Around Hussar, Alberta, wheat averaged from thirty to forty bushels to the acre.

The yield of oats this year was 399, 368,000 bushels. Barley yielded 66,443, 500 bushels; rye 8,234,100 bushels. Manitoba, Saskatchewan and Alberta together produced 161,419,000 bushels of wheat; 246,756,000 bushels of oats; 46,412,000 bushels of barley and 5,954, 000 bushels of rye.

FERTILIZING WITH STRAW.

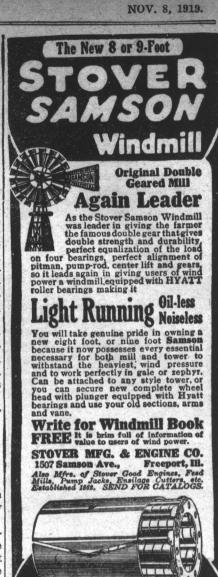
(Continued from page 584). and oats five-sevenths of the potash taken up by the plant is in the straw or stover.

The annual waste of straw is nothing less than criminal. It is a disgrace to modern American agriculture that it is permitted, especially in a time when all fertilizing elements are short. The straw stacks of single states which are permitted to go to watse would winter one million head of cattle. A cow will live on a few tons of straw during the winter. She may not become fat on it, but she will not lose flesh, and one of the great things to impress upon all farmers with cattle to winter is to always keep his stock in flesh. A little bit of concentrates, cake or corn, will keep an animal growing and in good condition throughout the winter, if they also have a straw stack to run to.

Straw is a mighty good roughage. Let the cows and calves eat all they will and then feed a pound or two of cake or two or three pounds of corn a day and the stock will actually gain during the winter. Then think of the tons of manure that straw will make and every pound of manure put on a farm makes it that much more capable of production. Straw is a fertilizer in itself, but it is never so good as when converted into manure and spread.

In England an experiment was made of scattering a ton of straw on an acre of ground each year. For ten years there was not any appreciable increase in the richness of the soil, but the tenth year there was a very noticeable improvement, and every year thereafter that a ton of straw was placed on each acre of that plot of ground the soil improved. During the time there was no improvement noticed the soil held its own. It did not get poorer, but it took nine years for the straw, at the rate of a ton an acre, to build up the soil to a point where it could show an improvement.

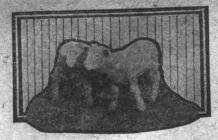
If the straw is spread direct from the stack it is a tiresome and difficult job. This fact has served to make spreading straw most unpopular, and is responsible for the lack of it in certain sections. Good straw spreading machines are now available. They will spread twenty acres per day, and may be placed on an ordinary wagon, the power being supplied by a specially shaped iron chain drive attached to the rear right-hand wheel. A disc located in the rear spreads perfectly a swath of fifteen to thirty feet, according to thickness desired. It is not only a soil conserver but a labor saver as











INFERIOR LAMBS PLENTIFUL.

A LTOGETHER too much disregard to making lambs good and fat is shown by hundreds of stockmen, most of them being new beginners, and the Chicago receipts include great numbers of lambs which are useful for neither killers or feeders. Many flocks are marketed after a period of grazing, their appearance showing plainly that they were fed very little, if any, corn, and many lots of burry lambs have been showing up that were not wanted for feeders, these falling into the hands of the packers at absurdly low prices. Desirable feeding lambs have been in large demand all the time, however, the better class bringing prices which looked reasonable to most country buyers. Fat killing lambs have been going at lower prices than a year ago, but at much above the prices paid in most former years. A leading Chicago sheep seller remarked the other day that not more than twenty-five per cent of the western lambs coming to market are fit for slaughter. Ruling prices for sheep are far lower than lamb prices, and the packers say they are compelled to put a large portion of their mutton in freezers because they can not sell it now. The range shipping season is drawing near a close, and the markets now are depending largely on fed flocks of westerns. Advice from Montana is that the range is in fine condition, following late good rains, and lambs are fattening well. The range up there is said to be the best in five years at this season of the year. During the summer the range was short on grass because of the drought, and lambs marketed were deficient in weight as a rule. But little hay was put up, and it rose to \$30 a ton, but is now selling for \$25. In the corn belt farmers are turning many flocks of sheep and lambs into their corn fields, with good results, the prevailing custom being to have lambs follow the hogs in cleaning up the fields. The owner of 250 head of native lambs in eastern lowa is following this course, and his clip of wool this year averaged eight pounds per head and brought him fifty-six cents a pound. He uses Shropshire ewes, on which pure-bred stocks are used .- F.

KIND OF GRAIN TO FEED WITH ENSILAGE AND OAT STRAW.

I wish to know what grain I must get to feed my cow in order to have a balanced ration. I have plenty of ensilage with lots of corn in it. For dry feed I only have corn fodder, and oat straw but no hay. Can I get good results with that? Also how much grain must I feed? must I feed?

Charlevoix Co.

In order to have a balanced ration, the grain ration in this case ought to proteins be richer in roughage is highly carbonaceous. The two main protein feeds, cottonseed meal and oil meal are exceedingly high in price and hard to get at the present time. Wheat bran, however, seems to be more plentiful this year than for several years. While it is high in price it will not be as difficult to secure as the other feeds. A ration of one hundred pounds of corn meal and two hundred pounds of wheat bran will give you a fair result. You ought to feed one pound of this grain mixture for every three or four pounds of milk the cow produces in a day. L.



THER people judge you by your farm. Stand off and look it over. Is your house brilliantly lighted by electricity? - or do you use old time lamps? Are your barns and sheds and workshops bright as day—so men can work easier and faster after dark? or do you use the dim, sickly light of dangerous kerosene lanterns? you operate all your small machinery—your churn—separator—washing machine—electric iron—fanning mill—grindstone, etc.—the easy way by electric power?—or do your men and women folks do this work by "elbow power"? Modern farms—profitable farms—happy farms—are equipped with the Have you running water in house, barn and yard or do you pump and carry water? Do

lent D FARM ELECTRIC POWER AND

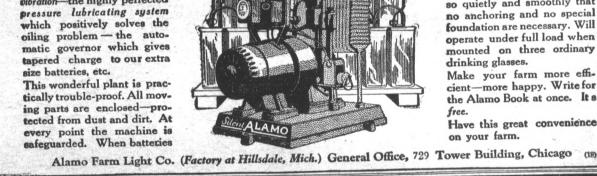
Everywhere this remarkable plant is growing in popularity. This widespread preference is due to such remarkable features as our wonderful rotating,

sleeve-valve motor (Ide Super-Silent Motor) the noiseless motor that improves with use the total absence of ruinous vibration—the highly perfected pressure lubricating system which positively solves the oiling problem - the autoare full motor stops. When oil gets low motor stops. When cooling water gets low motor stops. Unless there is a sufficient quantity of oil and water the

motor will not start. No possibility of overheating or burn-ing out a bearing. Positively the most highly perfected plant in the world. Operates so quietly and smoothly that no anchoring and no special foundation are necessary. Will operate under full load when mounted on three ordinary

drinking glasses. Make your farm more efficient-more happy. Write for the Alamo Book at once. It s

Have this great convenience on your farm.















SEND FOR PRICE LIST ON Muskrat. Skunk, Etc. AL. SHAWAKER 437.449 E. Rich Street Dept. L. COLUMBUS, OHIO



A Wonderful Response

Michigan State Farm Bureau Goes "Over the Top"

Never before in history, has agriculture displayed such keen endorsement as it has given the Michigan State Farm Bureau since the campaign for membership began.

As you already know, the campaign opened in Oakland County on October 15th.

Solicitors entered and canvassed one township at a time.

A Record

On October 28th, reports for the first twelve days of the campaign were telephoned and wired to the Secretary's office in Birmingham, Michigan. Here they are in brief:

Number of working days			12
Number of townships in Oakland County can	vas:	sed	10
Total number of farmers actually solicited			
Total number of membership checks signed			634

Eighty-eight and one eighteenth per cent (881/18%) of all farmers visited joined.

What Happened in the First Township

The wonderful response that met the solicitors in the first township visited is just an example of the enthusiasm that the Michigan State Farm Bureau organization has awakened throughout the state.

Addison Township was first. Just about a year ago, C. B. Cook, Oakland County Agricultural Agent, travelled into this same township in the northeastern corner of the county to confer with a group of prominent farmers on the organization of a cooperative buying and selling association.

"Nothing doing," was the greeting Cook received. "Why you'll never get the farmers up here to back a proposition like that; they're the deadest crowd anywhere in the county."

However, knowing this territory was virtually solidly devoted to agriculture, it was decided by the Michigan State Farm Bureau Membership Campaign Organization that if the drive were started there it would show conclusively whether the farmers of Michigan are alive to the need of an organization to promote and protect their interests.

Six solicitors entered Addison Township in the morning.

When night came, ninety per cent (90%) of the farmers in

Addison Township were members of the Michigan State Farm Bureau.

Some Examples

It is interesting to get down to specific examples and realize the enthusiastic reception that the Michigan State Farm Bureau solicitors received.

Some men approached wanted to pay, on the spot, for three years' dues. Others wanted to put \$50 or \$100 behind the Michigan State Farm Bureau movement, and when told that one \$10 membership was all that a man could have, they took out memberships for different members of their family.

One farmer, 75 years old, who has lived all his life on the farm told the solicitor who visited him, "I am glad to see the farmers of the state waking up. It's time.

Some Were Missed-And Why

Canvassers report that a great number of farmers were not at home when they called. These men who were missed are now asking for the opportunity of joining. They will be given this opportunity at a later date by a local man in each community.

Response is State-Wide

Every mail coming to the Secretary's office at Birmingham is full of letters from various counties requesting that they be put on the canvass list immediately. Thirteen counties are now in line for the campaign and organization plans are being completed for them. At least a dozen others are asking for next place on the list.

Farmers from all over the state are writing in to the Secretary's office stating that they want a chance to assist in some way to help complete this great organization.

The Michigan State Farm Bureau expects to have, within two weeks, solicitors from the ranks of the farmers of the state which will enable them to complete the work in each county in at least two weeks' time.

From now on, the work will move rapidly. If your county is anxious to join in with this movement right from the start, it is none too early now to communicate with the Secretary of the Michigan State Farm Bureau and solicit his organization assistance for the earliest possible moment.

The success of the Michigan State Farm Bureau is an assured fact. The farmers are stirred up as they never were before. The great majority of the 200,000 farmers of the state will soon be "Organized for Business."

C. A. BINGHAM, Secretary

Join the Michigan State Farm Bureau



It is Organized for Business

Executive Office:

Birmingham, Mich.

WORLD EVENTS IN PICTURES



"Flying Parson" (Lieut. Melvin W. Maynard), who won the National Air Derby by flying from New York to San Francisco and back



The last picture taken of President Wilson as he was returning from his speaking tour.



Mrs. Thomas G. Winter endorsed by the Minnesota Federation of Women's Clubs for presidency of National Federation.



Countess de Perigny gives assistance to Dr. Serge Veronoff, who claims to restore youth to old by gland implantation.



Commander Evangeline Booth, of the Salvation Army, receiving D. S. C. for her war work.



Poisoned Luikart Children, and reporter who saved one. Edna Luikart (left) and Thomas Wren, who gave his blood to save Shirley.



Mrs. Sumner R. Hollander returned on the "Adriatic" after a tour of Europe, wearing striking costume.



Family of the late John Mitchell, the great labor leader. Widow and children are, left to right, Richard, Katherine, Mrs. Mitchell, James and Robert.



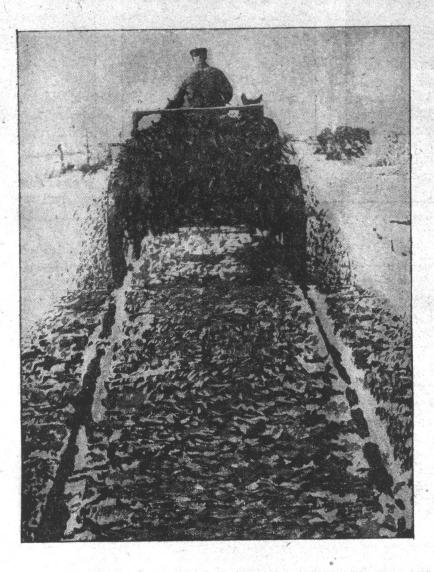
Their schools reduced to ruins in the war devastated area of Locre, the Sisters of Mercy have gathered their pupils and are teaching them in the open fields with the ruins of their school as seats.



Queen Elizabeth meets Luther Burbank, Famous Naturalist and Originator of new fruits and flowers during the stay of the Royal Party in San Francisco. The queen is extremely well informed on these subjects.



Queen Elizabeth of Belgium talking with children on the beach at Santa Barbara, Calif., and doubtless telling them a story of the Great War. The Queen is in the center with her hand at her neck.



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Crooked Trails and Straight

By Wm. MacLeod Raine

terday that's the way I'd a-talked my hear the sizzling of ham and eggs. own self, but now I know better. What While he ate the girl flitted in and about your little stunt? Wasn't that out, soft-footed and graceful, replenwarm enough for you? Didn't guns ishing his plate from time to time. pop enough? Don't you talk about Presently he discovered that her moving pictures!"

ed to doing so and Flandrau because Dead Cow. his experiences had sobered him.

"I'm on the water wagon, Dick." He son?" the guest asked carelessly. grinned ruefully at his friend. "Nothbetter off if I'd got on the wagon a tened on him. week ago."

Since their way was one for several she said. miles Maloney and Curly took the road together next morning at daybreak, him up. I know his folks a little." Their ponies ambled along side by side at the easy gait characteristic of the southwest. Steadily they pushed into the brown baked desert. Little dust whirls in the shape of inverted cones raced across the sand wastes. The heat danced along the road in front of them in shimmering waves.

Your plainsman is a taciturn individual. These two rode for an hour without exchanging a syllable. Then at Stone's?" Curly was moved to talk.

can get fond of so Godforsaken a coun- young Cullison. try? Cactus and greasewood and mesgreasewood and cactus. Nothing but man drawled. sand washes and sand hills, except the naked mountains 'way off with their bones sticking through. But in the mo'ning like this, when the world's kind o' smiley with the sunshine, or after dark when things are sorter violet soft and the mountains lose their edges—say, would you swap it for any other country on earth?"

Maloney nodded. He had felt that had never put it into words.

At Willow Wash their ways diverged. They parted with a casual "Solong; see you later." Curly was strik- Laura London." ing for the headquarters of Dead Cow Creek, to Soapy Stone's ranch.

He put up that night at the place of tioned his destination, but he did not say anything. It was none of his busi-Soapy's ranch.

Flandrau took the trail again next did you think I was?" morning after breakfast. About two hills, in the middle of which, by a dry aren't you?" creek, lay a ranch.

The young man at first thought the him? Or aren't you?" place was deserted for the day, but Curly smiled gaily across the table ooking.

curves and engaging dimples. Beneath of their hilarity. the brown cheeks of Arizona was a "Oh, you!" she reproved when she pink that came and went very at-had sufficiently recovered. tractively.

"Buenos tardes, senorita! I'll bet I'm funny."

too late to draw any dinner."

"For all I know yet you may be
"Buenos, senor," she answered one."

promptly. "I'll bet you'd lose your "I never did see anyone with a dis-

for the dinner bell."

pump. There's a towel on the fence." She disappeared into the house, and Milch Goats For Sale. Saanen and Curly took care of his horse, washed, ling. On Friday night a bunch of horse and sauntered back to the porch. He es belonging to the Bar Double M were

Maloney laughed. "Day before yes- could smell potatoes frying and could

father was away hunting strays on After the show there were other Sunk Creek, that the nearest neighbor things. But both of them trod the nar- was seven miles distant, and that row path, Maloney because he was us- Stone's ranch was ten miles farther up

"Ever meet a lad called Sam Culli-

Curly was hardly prepared to see ing like locking the stable after your the color whip into her cheeks or to brone's been stole. I'd a been a heap meet the quick stabbing look she fas-

"You're looking for him, are you?"

"Thought while I was here I'd look

"Do you know him?"

He shook his head. She looked at him very steadily before she spoke.

"You haven't met him yet but you want to. Is that it?"
"That's it."

"Will you have another egg?"

Flandrau laughed. "No, thanks. Staying up at Stone's, is he?"

"How should I know who's staying

It was quite plain that she did not "Can you tell me how it is a man intend to tell anything that would hurt

"Oh, well, it doesn't matter. I ain't quite, and for a change mesquite and lost him any to speak of," the young "Are you expecting to stop in the

hills long-or just visiting?" "Yes," Curly answered, with his most innocent blank wall look.

"Yes which?"

"Why, whichever you like, Miss London. What's worrying you? If you will ask me plain out I'll know how to answer you."

"So you know my name?"

"Anything strange about that? The emotion a hundred times, though he Bar 99 is the London brand. I saw your calves in the corral with their flanks still sore. Naturally I assume the young lady I meet here is Miss

She defended her suspicions. "Folks come up here with their mysterious questions. A person would think noa nester in the foothills. His host body lived on Dead Cow but outlaws looked at him curiously when he men- and such, to hear some of you valley people tell it."

"There's nothing mysterious about ness how many young fellows rode to me and my questions. I'm just a lunkheaded cowpuncher out of a job. What

"What do you want with Sam Cullio'clock he reached a little park in the son? Are you friendly to him? Or

"Ladies first. Are you friendly to

when he called a girl appeared at the at her. A faint echo of his pleasantry door. She smiled up at him with the began to dimple the corners of her lively interest any ranch girl may be mouth. It lit her eyes and spread expected to feel in a stranger who hap- from them till the prettiest face on the pens to be both young and rather good creek wrinkled with mirth. Both of them relaxed to peals of laughter, and She was a young person of soft neither of them quite knew the cause

"So you thought I was a dectective Curly took off his dusty gray hat, or a deputy sheriff. That's certainly

position so dark-complected as yours. He swung from the saddle. "That's If you won't put them suspicions to good hearing: When a fellow has had sleep I'll have to table my cards." his knees clamped to the side of a From his pocket he drew a copy of the cronch for seven hours he's sure ready Saguache Sentinel and showed her a marked story. "Maybe that will ex-"You can wash over there by the plain what I'm doing up on Dead Cow."

This was what Laura London read: "From Mesa comes the news of an-

rounded up and driven across the mountains to this city. The stolen animals were sold here this morning, after which the buyers set out at once ter which the buyers set out at once for the border and the thieves made themselves scarce. It is said that the rustlers were members of the notorious Soapy Stone outfit. Two of the four were identified, it is alleged, as William Cranston, generally known as "Bad Bill," and a young vaquero called "Curly" Flandrau.

"At the time of going to press posses are out after both the outlaws and the stolen horses. Chances of overtaking both are considered excellent. All likely points and outlying ranches have been notified by telephone whenever possible.

possible.

"In case the guilty parties are apprehended the Sentinel hopes an example will be made of them that will de-ter others of like stamp from a practic that has of late been far too common. Lawlessness seems to come in cycles. Just now the southern tier of counties appears to be suffering from such a sporadic attack. Let all good men combine to stamp it out. The men combine to stamp it out. The time has passed when Arizona must stand as a synonym for anarchy."

She looked up at the young man breathlessly, her pretty lips parted, her dilated eyes taking him in solemnly. A question trembled on her lips.

"Say it," advised Flandrau.

The courage to ask what she was thinking came back in a wave. "Then I will. Are you a rustler?"

"That's what the paper says, don't it," he replied.

"Are you this man mentioned here? What's his name—'Curly' Flandrau?" "Yes."

"And you're a rustler?"

"What do you think? Am I more like a rustler than a deputy sheriff? Stands to reason I can't be both,"

Her eyes did not leave him. She brushed aside his foolery impatiently. "You don't even deny it."

"I haven't yet. I expect I will later."

"Why do men do such things?" she went on, letting the hands that held the paper drop into her lap helplessly. "You don't look bad. Anyone would think-

Her sentence tailed out and died away. She was still looking at Curly, but he could see that her mind had flown to semeone else. He would have bet a month's pay that she was think ing of another lad who was wild but did not look bad.

Flandrau rose and walked round the table to her. "Much obliged, Miss Laura. I'll shake hands on that with you. You've guessed it. 'Course, me being so 'notorious' I hate to admit it, but I ain't bad any more than he is.'

She gave him a quick shy look. He had made a center shot she was not expecting. But, woman-like, she did not admit it.

"You mean this 'Bad Bill'?"

"You know who I mean all right. His name is Sam Cullison. And you needn't to tell me where he is. I'll find him.'

"I know you don't mean any harm to him." But she said it as if she were pleading with him.

"C'rect. I don't. Can you tell me how to get to Soapy Stone's horse ranch from here, Miss London?"

She laughed. Her doubts were vanishing like mist before the sunshine. "Good guess. At least he was there the last I heard."

"And I expect your information is pretty recent."

That drew another little laugh acompanied by a blush. "Don't you think I have told you

enough for one day, Mr. Flandrau?" "That 'Mr.' sounds too solemn. My friends call me 'Curly'," he let her

know. She remembered that he was a stranger and a rustler and she drew herself up stiffly. This pleasant young fellow was too familiar.

"If you take this trail to the scrub pines above, then keep due north for about four miles, you'll strike the creek again. Just follow the trail along it to the horse ranch."

With that she turned on her heel



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and walked into the kitchen.

He was always ready for foolery with resented it. the girls, but he was not the sort to go too far. Now he blamed himself Laura murmured. for having moved too fast. He had offended her sense of what was the Too bad Curly found me."

dle and take the road.

CHAPTER VI. A Bear Trap.

HE winding trail led up to the scrub pines and from there north into the hills. Curly had not traveled far when he heard the quick succession. He stopped to lis-

ten. Presently there came a faint far call for help.

ward in an awkward fashion with his back to Flandrau.

"What's up?"

At the question the man looked over his shoulder. Pain and helpless rage burned in the deep-set black eyes.

'Nothing at all. Don't you see I'm just taking a nap?" he answered.

Curly recognized him now. The man was Soapy Stone. Behind the straight thin-lipped mouth a double row of ly. Little beads of perspiration stood er. But I'm not really one of those out all over his forehead. A glance showed the reason. One of his hands firmest of grips. was caught in a bear trap fastened to a cottonwood. Its jaws held him so fast that he could not move.

The young man swung from the back of Keno. He found the limb of a cottonwood about as thick as his forearm below the elbow. This he set close to the trap.

"Soon as I get the lip open shove

her in," he told Stone. The prisoner moistened his dry lips. It was plain that he was in great pain.

The rescuer slipped the toes of his boots over the lower lip and caught the upper one with both hands. Slowly toward the house. the mouth of the trap opened. Stone slipped in the wooden wedge and withdrew his crushed wrist. By great good fortune the steel had caught on the me. leather gauntlet he was wearing. Otherwise it must have mangled the arm to a pulp.

deal.

"You'll have to let a doc look at it," Curly suggested.

Stone agreed. "Reckon I better ture toward the hills. strike for the Bar 99." He was furious at himself for having let such an accident happen. The veriest tenderfoot might have known better.

Bar 99. On the face of the wounded it than ever." man gathered the moisture caused by keep pack the groans.

"Hard sledding, looks like," Curly sympathized.

"Reckon, I can stand the grief," Stone's friend?" Stone grunted.

Nor did he speak again until they eached the ranch and Laura London looked at him from a frightened face. 'What is it?"

"Ran a sliver in my finger, Miss as the roses. "Ran a sliver in my finger, Mass as the loss."

Laura. Too bad to trouble you," answered Soapy with a sneer on his thin through him?" Flandrau added.

"Yes. If he can drag Sam down and lips.

dages, a sponge, and a basin of water, in him, folks say." Together she and Curly bathed and wrapped the wound. Stone did not he make a fight for himself?" weaken, though he was pretty gray about the lips.

her fingers trembling.

luck." Curly did not understand the Curly had not meant to be "fresh." bitterness in the sardonic face and he

"If the doctor would only hurry,"

"Yes, I know I'm a great trouble.

She was busy with the knots of the There was nothing for it but to sad- outer wrapping and did not look up. "It is no trouble."

"I'm too meddlesome. Serves me right for being inquisitive about your father's trap."

"He'll be sorry you were caught." "Yes. He'll have to climb the hill

and reset it."

That something was wrong between sound of a gun fired three times in them Curly could see. Soapy was very polite in spite of his bitterness, but his hard eyes watched her as a cat does a mouse. Moreover, the girl was afraid Curly cantered around the shoulder of him. He could tell that by the timof the hill and saw a man squatting of him. He could tell that by the tim-on the ground. He was stooped for Now why need she fear the man? It would be as much as his life was worth to lift a hand to hurt her.

After the doctor had come and had attended to the crushed wrist Curly stepped out to the porch to find Laura. She was watering her roses and he went across the yard to her.

"I'm right sorry for what I said, Miss Laura. Once in a while a fellow makes a mistake. If he's as big a chump as I am it's liable to happen a little oftensmart guys."

Out came her gloved hand in the

"I know that now. You didn't think. And I made a mistake. I thought you were taking advantage because I had been friendly. I'm glad you spoke about it. We'll forget it."

"Then maybe we'll be friends after all, but I sha'n't tell you what my friends call me," he answered gaily.

She laughed out in a sudden bubbling of mirth. "Take care." "Oh, I will. I won't even spell it."

He helped her with the watering. Presently she spoke, with a quick look

"There's something I want to say."

"Something I want you to do for

"I expect maybe I'll do it."

She said nothing more for a minute, then the thing that was troubling her Even now he was suffering a good burst from the lips of the girl as a flame leaps out of a pent fire.

"It's about that boy he has up there." She gave a hopeless little ges-

"Sam Cullison."

"Yes."

"What about him?"

"He's bent on ruining him, always His horse had disappeared, but Cur- has been ever since he got a hold on ly helped him to the back of Keno. him. I can't tell you how I know, but Together they took the trail for the I'm sure— And now he's more set on

Curly thought he could guess why, intense pain. His jaw was clenched to but he wanted to make sure. "Because you are Sam's friend?"

The pink flooded her cheeks. "Yes." "And because you won't be Soapy

She flashed a startled look at him. "How do you know?"

"Jealous, is he?"

Her face, buried in the blooms she had been cutting, was of the same tint

A rider for the Bar 99 had just rid. get him into trouble he'll pay off two den up and Laura sent him at once grudges at once. And he will too. for the doctor. She led the way into You'll see. He's wily as an Indian. the house and swiftly gathered ban- For that matter there is Apache blood

"What about young Cullison? Can't

"Oh, you know how boys are. Sam is completely under this man's influ-Laura was as gentle as she could be, ence." Her voice broke a little. "And "I know I'm hurting you," she said, I can't help him. I'm only a girl. He won't listen to me. Besides, Dad won't "Not a bit of it. Great pleasure to let me have anything to do with him have you for a nurse. I'm certainly in because of the way he's acting. What Sam needs is a man friend, one just as strong and determined as Soapy but one who is good and the right sort of an influence."

"Are you picking me for that responsible friend who is to be such a powerful influence for good?" Curly asked with a smile.

"Yes-yes, I am." She looked up at him confidently.

"Haven't you forgotten that little piece in the Sentinel? How does it go? An example had ought to be made of the desperadoes, and all the rest of it."

"I don't care what it says. I have seen you."

"So had the editor."

"She waved his jests aside. "Oh, well! You've done wrong. What of that? Can't I tell you are a man? And I don't care how much fun you make of me. You're good too.'

Curly met her on the ground of her own seriousness. "I'll tell you something, Miss Laura. Maybe you'll be glad to know that the reason I'm going to the horse ranch is to help Sam Cullison if I can."

He went on to tell her the whole story of what the Cullisons had done for him. In all that he said there was not one word to suggest such a thing, but Laura London's mind jumped the gaps to a knowledge of the truth that Curly himself did not have. The young man was in love with Kate Cullison. She was sure of it. Also, she was his ally in the good cause of romance.

When Curly walked back into the house, Stone laid down the paper he had been reading.

"I see the Sentinel hints that Mr. Curly Flandrau had better be lynched," he jeered.

"The Sentinel don't always hit the bull's-eye, Soapy," returned the young man evenly. "It thinks I belong to the Soapy Stone outfit, but we know I haven't that honor.'

"There's no such outfit-not in the sense he means," snapped the man on the lounge. "What are your plans? Where you going to lie low? Picked

"I don't know where I'm going, but I'm on the way," Curly assured him gaily.

Soapy frowned at him under the heavy eyebrows that gave him so menacing an effect.

"Better come back with me to the ranch till you look around."

Suits me right down to the ground if it does you."

Someone came whistling into the house and opened the door of the room. He was a big lank fellow with a shotgun in his hands. "From Missouri" was stamped all over his awkward frame. He stood staring at his unexpected guests. His eye, clashing with those of Stone, grew chill and

"So you're back here again, are you?" he asked, looking pretty black. Stone's lip smile mocked him. "I don't know how you guessed it, but I sure am here."

"Didn't I tell you to keep away from the Bar 99-you and your whole cursed outfit?"

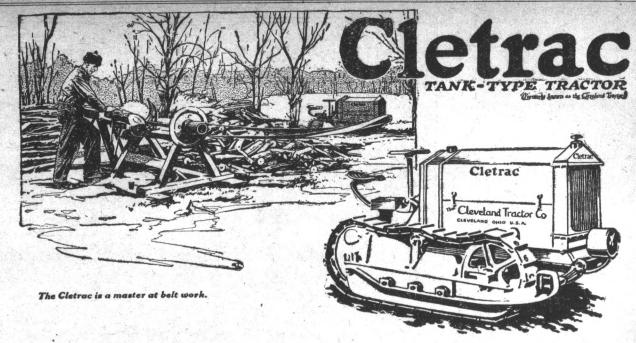
"Seems to me you did mention something of that sort. But how was I to know whether you meant it unless I came back to see?"

Laura came into the room and ranged herself beside her father. Her hand rested lightly on his forearm.

"He got caught in one of your bear traps and this young man brought him here to wait for the doctor," she explained.

"Hmp!" (Continued next week).





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Our Boys' and Girls' Page

Strong for Life's Work

By E. L. Vincent

that is good health. About the last ments for letting tobacco alone. thing a young person, boy or girl, A day or two ago one of the world's thing in the world.

of examining boys for soldiers in the strong drink. late war say that they found a great Let us sum this up, then, in a nutmany farmer boys that were not as shell. These bodies are our great

ONEY, good birth, a boost from right to begin to use it. Take it from somebody-these are the things a man who never has used tobacco in we sometimes look upon as be- any form that this is a great mistake. ing the springs of a successful life. If Tobacco never did anybody the least we can only start out with plenty of possible good. It hurts us all who use money, with a letter in our pockets it. Then why not let it alone? It is from a good father recommending us a poison. It must be, to have the efto some big firm down town, why we fect it does on the body. Anything will come out all right. We need little that makes one dizzy and sick will more to make it reasonably sure that surely, if kept up long enough, injurwe shall do well and make our mark jously affect the system of the one who in the world. What more do we need? resorts to it. Leave the question of Let us think for a few minutes of the cost in money out of the question another thing we do really need, and and we still have the best of argu-

thinks of, is to take good care of the greatest surgeons, Dr. William Mayo, body. Thinking that nothing matters stated before an immense body of the much in that direction, when we are country's medical men that the disuse young, we are apt to feel that we are of liquor would add ten or fifteen years equal to anything. We can actually to the length of men's lives. Worth abuse our bodies and come out all while, isn't it? If for no other reason right. If we get too tired, we can rest than that we shall live longer if we up. But getting tired is not the worst are careful in this respect, leaving all kinds of stimulants absolutely alone, Those who had the matter in hand it would pay to be clean and free from

sound physically as they ought to have source of strength if well cared for.



Some of the Good Things Raised and Canned by the Boys' and Girls' Clubs of Detroit, and Exhibited at the State Fair.

been at the age of enlistment. They Money counts as nothing by the side orders.

boys at home have felt that it was all pier and so will the world.

had all sorts of disabilities. Their teeth of strong bodies. No prestige, no letwere especially poor. Many of them ters of recommendation can carry us did not seem to have taken any care successfully through life if our bodies of their teeth, so that they were rot- are broken down and crippled by bad ted and often entirely gone at the ear- habits of any kind. Here we may as ly age of enlistment. We did not know well say that bad habits include negonce that decayed teeth open the door lect of the teeth, any kind of sport or to a great many serious diseases of personal practice that leaves the body the bowels and other parts of the body below its best. These are strenuous a long way removed from the mouth, days in which we live. We need sound Then, too, with poor teeth one cannot healthy bodies, which in most cases chew his food as well as he should, determines the power to think well and that is a cause of digestive dis- and clearly, to meet the stress and strain of life. This is just as true right Maybe a good many farmer boys on the farm as anywhere. The farmer will not like to have me speak of the boy needs to be good and pure and use of tobacco. So much stress has clean to the core. Then he will be a been placed by those who ought to blessing to the world and come out have been a little more wise about the ahead in the great game of life. And, importance of the soldier boys having dear farmer girls, this means you, too. tobacco in various forms, that many Live up to your best. You will be hap

Club Notes

tural College, a course in Boys' and tion of the state club leaders.

Girls' Club Work was offered. This At the annual convention of the Vegin the course is teaching in a rural tables grown by garden club members.

DURING the past summer school school during the present school year. session at the Michigan Agricul- This course was given under the direc-

course proved to be a very popular etable Growers' Association of Amerione, especially among students who ca recently held in Detroit, Glen O. had had experience as rural school Stewart, Wayne County Club Leader, teachers. Every student who enrolled had a most attractive display of vege-







The exhibits also contained garden products which had been canned by these garden club members, together with samples of canning equipment. The exhibit caused much favorable comment from the vegetable growers attending the convention. Merl Russell, leader of garden club work at Highland Park High School, also had a most attractive display of vegetables which had been grown on the school farm.

At the Genesee Couny Fair held at Davison, were exhibited some seventy pure-bred pigs which were raised by Boys' and Girls' Pig Club members throughout Genesee county. The judges at the fair pronounced this lot as one of the most uniform lots of pigs which it had been their privilege to see.

Club leaders throughout Michigan unite in expressing their regret of the fact that Miss Anna B. Cowles, State Club Leader for Girls, has severed her connection with club work in Michigan. Miss Cowles resigned September 1 to accept a position with the community council in New York City. All club leaders, together with hundreds of club members throughout Michigan, who have come to think of Miss Cowles as a very dear friend, unite in wishing her the best of good fortune in her new work. Her council and enthusiasm and ability have left a permanent impression upon the club work of Michigan. Her present address is 2205 Municipal Building, New York



BOYS' AND GIRLS' JUNIOR DAIRY CATTLE JUDGING CONTEST.

THE National Dairy Association offered five hundred dollars in prizes, and the Holstein-Friesian Association of America offered a silver loving cup for the Boys' and Girls' Junior Dairy Cattle Judging Contest, which was held at the National Dairy Show, Monday, October 6, 1919. The object of this contest is to stimulate interest among the boys and girls in judging dairy cattle, and to teach them the principles of dairy type and conformation.

The state of Iowa, Illinois, Indiana, Wisconsin, Minnesota, and Michigan were each represented by a boy who had been selected as the best junior judge of dairy cattle in his state.

The contestants were allowed fifteen minutes in which to inspect the animals, take notes and make their placings. They were then taken out of the ring and allowed fifteen minutes to write their reasons for making the placings.

The following boys won prizes and trophies in the contest:

Raymond C. Nesbitt, of Minnesota, first place, \$100 in cash, a silver loving cup offered by the National Dairy Association and a silver loving cup for best judging of Holstein cows offered by the Holstein-Friesian Association of America.

Burton Forney, of Iowa, won second place, \$75.00 cash, and a gold medal awarded by the National Dairy Association.

John Stansfield, of Illinois, won third place, \$70.00 in cash and a silver medal awarded by the National Dairy Association.

Clarence Rogers, Indiana, Ivan P. Galpin, Michigan, and Cyrus Shabaz, Wisconsin, in the order named, won places and prizes of \$65 and a bronze medal each, offered by the National Dairy Association.

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Woman's Interests

Let's Teach Girls Courage

way into practically every occu- tle ills. pation once supposed to be exclusively given our boys is very dissimilar from that we accord our daughters.

Courage being the most admirable trait in a man, we start to developing it in our men-children from their earliest days. But physical courage not being so necessary in women, we fail to impress its desirability on our daughters, with the result that though some of them arrive at maturity wih plenty of physical courage, there is a large per cent who fail to cultivate either the physical or moral sort.

A group of small children ranging in ages from two years to five were playing in the yard the other day. Suddenly the air was rent with the loud wails of a two-year-old girl. Doors flew open and mothers rushed out from a half dozen houses, while older sisters and brothers from across the street left their ball game to hurry to the rescue. Inquiry developed the fact that Mary Ellen had stubbed her toe and fallen down in the grass. She wasn't hurt, not the littlest mite, but her mother picked her up and kissed and hugged her, someone else gave her an apple, a third promised her an auto ride, while everybody blamed "the naughty old ground" for bumping the

Problems

BY MRS. L. M. THORNTON. The problems, oh, the problems, That mothers have to meet, In training little fingers, In guiding little feet.
And when is sternness needed, And when a smile or sigh, And which is best, to notice Or let some fault go by.

The problems, oh, the problems That mothers have to face, In bringing lads and lassise To fill life's destined place. For Jennie is too bashful And Jackie is too bold, And Bobby Boy, the loving, Ne'er does as he is told.

The problems, oh, the problems,
That mothers have to dare, But yet the blessed answers That meet us everywhere. Brave men and loyal women, In every state and land, For back of mother's efforts Was God's uplifting hand.

The next-door neighbor looked out the mope when she has a little ache or window and laughed, the children pain, or to take petty revenge when

the proper thing to do, and at any rate, ing chance." it was far saner treatment than the

Now that women have been given baby. She was made quite a heroine, little girl got. But if it was good treatthe vote and have pushed their and encouraged to magnify her lit- ment for the boy, why wasn't it equally good for the girl? Why teach him A half hour later there was a real, to grin and bear it, and encourage her masculine, I've been wondering if it shrill cry of pain. It was a three-year- to grow into a cry-baby? When that wouldn't be a good thing to make the old boy-everybody knew in both in- girl becomes a woman she is going to early training of our daughters the stances who was crying, cries are as meet a great many bumps. Wouldn't same as that we give our sons. For if distinctive as voices. He had fallen it be better to prepare her for them as men and women are to be on a plane down the steps and cut his knee on she goes along, than to coddle her of equality what more reasonable than the concrete walk. Blood ran down his through infancy and young girlhood that they should be started off alike in leg and he really was hurt. Was there and then thrust her entirely unpreparbabyhood? As it is today the training the same commotion? Nobody ran out. ed, into a world full of hard bumps and bruises? Why wouldn't it be a good thing to teach our girls fortitude and physical endurance? Those attributes are just as necessary in homemaking as they are in wage earning. There would be less whining and fewer complaints when things didn't go right, for complaining is really a sign of cow-

> Teach the girls that life is a game of give and take. There has been too much giving the best room to sister and letting brother take what he can We have insisted all too long that brother must be a gentleman and give up to sister because she is a girl. Let's make simple justice the rule instead of sex. Let the girl know she must expect nothing simply because she is a girl. Teach her to be what the boys call a "good sport," to play the game fair whether it is a child's game or a youth's work. Let's bring her up as we do our boys, to be brave, honest and independent, claiming nothing which is not hers by right, and insisting on getting what is her due.

ardice and weakness.

We can't do this by coddling, by encouraging her to cry when she is hurt, across the street mocked him, and his she is thwarted. If she is to be the own mother came to the door and com- sort of woman the world is suffering manded him to stop crying and be a for today she mustn't be brought up to be a "little lady." She must be If you want to teach stoicism it was taught, as her brother, to take a "sport-

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Robbing Washday of Its Terrors

housework? Probably if a vote les in. could be cast, it would go overwhelmingly for washing. If wash-day running water there are all sorts of could be eliminated from the calendar ways to rob wash-day of many of its the week would lose half its terrors. First of all there is the own-Ironing and cleaning may be done a ership of a bench broad enough and little at a time, and cooking, while it long enough to hold two tubs easily sometimes becomes tiresome, is not and safely. Don't say you can't have downright hard work. But washing this, for every farm home can provide means muscular labor of the hardest the boards, hammer and nails to make sort, lifting tubs of water, hard rub- it. And if the man of the house thinks bing of soiled garments and a job he isn't enough of a carpenter to make which should be gotten out as quickly it, there are ways of convincing him as possible if we are to get the best that he is. Be sure the bench is of

the great majority of the farm women you individually. prices as well, so that the money line, several dozens of clothes pins, a

7HAT is the hardest part of your seems to flow out while it only trick-

Even without a power machine and ways of convincing him just the right height for you to work That is what washing means if you easily. Don't have it too low nor too live in an old house without set tubs, high. Try it out while it is being made running water and a power machine as and have the supports made to suit

do today. For while it is all very easy Next provide yourself with a large, to tell women they should have all long-handled basin for dipping the wathese labor-saving devices it is quite ter from the tubs, and a pail, not too another thing to get the money to pay large lest it be too heavy for you. Keep for them. And though farmers are get- these exclusively for wash-day so that ting the highest prices ever known for they will always be ready and always most of their products, manufacturers clean. A good wringer if you can, a are merrily engaged in boosting their soap shaver, plenty of good strong

from the boiler, and two strong props dish alternate layers of rice, oysters, for the lines, are essential. An old celery and white sauce, letting a laybroom handle, cut a convenient length, er of rice cover the top. Bake twenty will make a good stick for lifting the minutes in. a moderate. (Macaroni clothes from the boiler. It will be may be used instead of the rice). smooth and strong.

Do as much preparatory work as One cup of milk, one tablespoon of water.

Do not be afraid to use helps for loosening and removing the dirt so long as you know the thing recommended damp towel, rub over with salt, dust will not injure the fabric. Perhaps the with pepper. Put in a pan with boilbest thing you can use is paraffin, ing water and place in a quick oven. though this means using water as hot Bake fifteen minutes to each pound, as can be borne for rinsing or the par-basting every ten minutes. For the affin will harden and stick to the pudding, beat together four eggs, one clothes. To use it, shave and dissolve a half cake of paraffin with one bar of soap. Put the soaked clothes in the spoon. Pour under the roast twenty boiler with a cup of this solution and minutes before serving. boil a half hour before washing. The clothes so treated require practically no rubbing, but may be simply rinsed in hot water, then in cold, blued, starched and hung up. Colored clothes are soaked and allowed to stand in the REW wives but wish at one time or scalding suds while you rinse and hang up the white ones.

ed alone.



CONTRIBUTED RECIPES.

Eggs in Nests.

Place a spoonful of minced ham moistened with white sauce in the bottom of a number of well-greased individual dishes. Into each one break an egg and place in the oven until set. Garnish with parsley and serve hot.

Nut and Fruit Fudge.

ped into cold water, then add a halfbeat until dissolved. Now add half a cupful of chopped walnut meats and wrap in wax paper.

Spare Ribs.

When cooking spareribs, first boil add salt and pepper. Bake slowly, do ble salad.

Oyster Scallop.

2 cups cooked rice.

1 pint oysters.

1 cup of chopped celery.

1 cup milk.

1 tablespoon cornstarch.

1 tablespoon fat.

1/2 teaspoon salt.

White pepper to suit taste.

fat, stirring in the cornstarch, salt and prove the flavor, and plenty of spice pepper, then adding the milk. Cook and raisins.-A Busy Farmer.

good smooth stick for lifting clothes until thickened. Arrange in a baking

Cheese Salad Dressing.

possible the day before wash-day. Sort fat, one tablespoon of flour, one-quarover the clothes and put them in to ter cup of vinegar, one-half cup grated soak, soaping the soiled spots well. cheese, a little paprika, white pepper Have the boiler full of water and the and salt, also a tablespoon of onion shaved soap soaking in it. If the wa- juice if liked. Add flour to warm fat. ter is hard, soften it with a cup of sal Add milk and cook as for white sauce. soda solution made by dissolving one Cool slightly and add the vinegar pound of soda in one gallon of boiling which has been warmed, then add seasoning and cheese.

Roast Lamb with Pudding.

Wipe a forequarter of lamb with a pint of milk, salt to taste and flour to make a batter that will drop off the

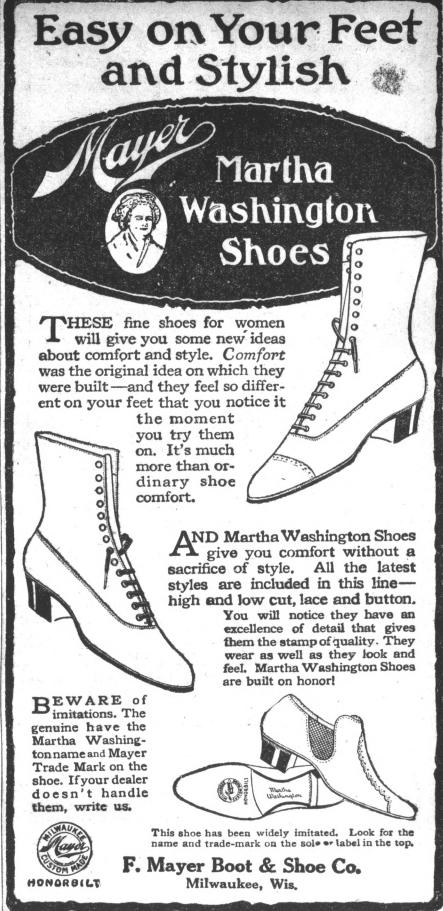
LIGHTENING THE HUSBAND'S DAY.

another that they could help to make the day of their husbands light-Of course, by this method of wash- er and more successful. Many study ing you must use the greatest care not this proposition and perhaps think that to put in colored garments of which when they have been out in the field the colors have not been set. The col- and helped to put on a load of hay or ored clothes must be sorted and those grain, or done something toward the with colors which run had better be chores, they have done their best and left out of the scalding suds and wash- all they can, and this really is a great deal, often far too much for a woman to do in addition to her household

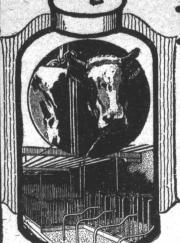
But there is a very good way in which the wife may help her husband aside from sharing the active work out of doors. I mean by the work she does in the kitchen. Good cooking has more to do with the farmer's success or failure than we are apt to think. A man is just what his digestion makes of him. If he has good food to eat, eats it with a relish, digests it properly, the world has a good look to him and he gets through the hardest kind of work in good shape, going to his rest at night with a clear brain and ready for the sleep which will come

This makes it well worth while for the farmer's wife to study the food she prepares and give its cooking the best possible care. Often it is not possible for the farmer's wife to get just the things she would like, especially at some seasons of the year. This places heavier strain upon her to see to it Take two cups of light brown sugar, that what she does have is cooked a cupful of milk, a tablespoon of but- well and served in an attractive manter and a little cream of tartar. Boil ner. Farmer folks do not need such a until it makes a firm ball when drop- great variety as may be supposed at any time of the year. Good, plain, pound of fresh marshmellows and simple food, well cooked, is enough to give health and strength for the day's work. One thing above all is necesa half cupful each of chopped dates and sary, and that is that everything shall figs. Pour into a pan and when cool, be cooked perfectly done. Half-cooked or nearly cold, cut into squares and food of any kind is a burden to the strongest digestion and helps to make work hard and disagreeable.-E. L. V.

them, remove the scum and when par- Household Editor.—I have seen so tially done place in a baking pan and many helpful articles in the paper, and ways to help old H. C. L. I should not brown them too much. Serve with like to lend a suggestion to those who, apple sauce, baked apples or a vegeta- like myself, have to buy apples and meat for mincemeat. Now that green tomatoes are plentiful I can them and use about as many as I do apples for my mincemeat, which I make when we do our fall butchering, saving-small scraps of pork off the neck and head. If I have to buy any beef I prefer the hamburg, as there is no waste and it saves time grinding it when there is so much to get ready. I also use any Make a white sauce by melting the cans or left-over fruit that would im-







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one-third the regular fare.

Field Editor and Official Photographer C. Woodman, and the whole bunch. (the writer) and he will have his headquarters at the Pantlind Hotel.

story and illustrate a few of the doings attention. of these Granges throughout the state. get these pictures, names and details finest of the kind we ever saw. so that we may be able to print an in- And now we are on the lookout for

and degree team was taken at the big And don't forget that Michigan State Grange on October 17. Almost every inaw.

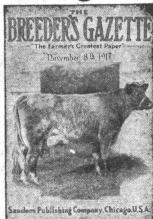
(Continued from first page) interest. Granger in the county was present and Patrons attending National Grange over one hundred took the sixth deshould be sure to buy their transporta- gree, A fine dinner was served by tion ticket on the certificate plan. Pay Trinity Church of Marshall. The milifull fare going to Grand Rapids and tary formation in the street shows get a receipt therefor. A special rail- what we call the P and G Company, road agent will be present to validate Calhoun Artillery of the Michigan Dithe certificates for the return trip at vision of the Grange. P and G means Pep and Go, and you see it sticking The Michigan Farmer will be repre- right out on the faces of Master Ketchsented at the National Grange by the am, State Grange Chaplain Mrs. O. J.

The picture of the crowd seated on a fine farm lawn was taken at the farm We are anxious to meet the officers home of Mr. and Mrs. C. J. Miller, Abof each Pomona Grange and take their scota, Calhoun county, three years pictures in groups, each county by it- ago. It was a typical Grange rally and self. Also degree teams of some sub-picnic and the dinner that day gave ordinate Granges, posed somewhat no intimation of sky-high prices and like the Charlotte team shown here-dehorned rations. Both Master Ketchwith. During the weeks and months am and Miss Jennie Buell gave adto come we would like to print a short dresses that cammanded the closest

The Grange parade in Charlotte was Master Ketcham is going to help us held several years ago and was the

teresting and illustrated story of some more and more pictures of all sorts of kind of Grange doings about every full Grange doings and of those who pull off the stunts; and the first of these The picture of the Charlotte Grange will be taken at National Grange.

meeting of Calhoun County Pomona Grange will meet in December at Sag-



ROBERT WALLACE, Winnebago Co., Ia.: "THE GAZETTE is the best farm journal printed."

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brother are subscribers to THE GAZETTE. I believe that I read it with as much interest and enjoyment as they do. I have quite a collection of clippings from it which I shall put into a looseleaf scrapbook." Sample copy free. Also book catalog if you ask for it. Address

THE BREEDER'S GAZETTE, R1125, 542 So. Dearborn St., Chicago, III.

Making Alfalfa Safe

(Continued from page 581).

gave ample applications of marl and in growing alfalfa: devoted the spring season to thorough preparation of the land which, on his farm is very light.

This article has dealt chiefly with alfalfa production in southwestern Michigan, but among the illustrations used milk. are pictures of John G. Krouth, stand-Presque Isle county, and of Olaf Nel- of the soil. son's alfalfa in Cheboygan county. Alfalfa is distributed practically through- other weeds. out Michigan.

A large part of Presque Isle is under-lain with limestone and the surface soil carries many small pebbles and fragments of limestone. It is one of factory lime, or hydrated lime. the few counties in the state where liming is not always needed for best phate, and manure to increase yield. results. In the great majority of cases the application of ground limestone clover has not been grown successfully. or marl is essential for success with

The need of an increased acreage of crown. ticularly of alfalfa is apparent to all or cocks. who are familiar with the crop production problems of Michigan. Large retard June grass. areas of our soils, which have been farmed for several generations, are no longer highly productive, owing to the ed than clover will supply. great deficiency of organic matter. On sible again the production of success- are under control. ful grain and cultivated crops. In all counties in the lower peninsula and in a number in the upper peninsula, farmers may be found who have demonstrated the value and adaptation of and fertilizing is too great. the crop. It costs money to establish a stand—but it pays big.

the father of alfalfa growing in south- The following summary from Experiwestern Michigan. Mr. Nelson, how- ment Station Circular No. 97 of the ever, made his seedings during the Michigan Agricultural College, serves summer without a companion crop, as a guide for those who are interested

Why Grow Alfalfa?

To get the largest yield of the best hay per acre.

To reduce feed bills.

To increase production of meat and

To increase the humus and nitrogen ing in a very successful field in content and to improve the condition

To eradicate Canada thistles and

How to Grow Alfalfa.

Plant only on well-drained fields. Prepare seed bed thoroughly.

Apply ground limestone, marl, beet Use acid phosphate or rock phos-

Inoculate soil where alfalfa or sweet

Plant hardy northern grown strains. Cut for hay when shoots show at

leguminous crops in general, and par- Wilt in swath and cure in windrows

Where to Grow Alfalfa.

Where more leguminous hay is need-

On any Michigan soils which are such lands, alfalfa and the practices well drained; well supplied with lime, necessary to secure it, will make pos- and where June grass and quack grass

Where Not to Grow Alfalfa.

On poorly drained or seepy soils. On acid soils or soils needing lime. Where the cost of liming, draining,

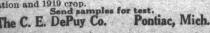
Where June grass and quack grass are unsubdued.

SEEDS WANTED

Michigan Grown
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White Wyandottes, White Books, Karred Rocks, S.C. Rhode Island Reds. Choice bockerels from great laying strains, \$4.00 to \$10.00

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Mrs CLIFFORD JORDAN, R. 2, Charlotte, Mich.

White Pekin Ducks and White Chin-ese Geese.

Mrs. CLAUDIA BETTS. Hillsdale, Mich.

Rhode Island Reds, R. C. Large fancy cock-BURF SISSON, Imlay City, Mich.



BUYING PURE-BRED PULLETS.

POULTRYMAN recently told me A that he figured on pure-bred pullets being worth at least seventy-five to one hundred per cent more for breeding purposes than for market. This may be true but there is a great variation in the value of pure-bred pullets and the birds are not of much value as breeders just because they are pure-bred. It is fundamental that the birds be pure-bred as a foundation. Then their value is built up according to their other characteristics.

One reason that some farmers are prejudiced against pure-bred poultry is due to some poor quality pure-breds they have seen. Some farmers who have culled their grade stock for years and kept only the best will never cull the pure-bred birds but keep them all. A pure-bred flock should receive a culling and birds of inferior vigor sold on the market. Such birds are not worth seventy-five per cent more than scrub stock just because they are pure-bred.

When buying pure-bred pullets we figure the value of the birds by the birds themselves. Some pullets are a poor investment at any price. Others might be a bargain at five dollars each. There can be no set rule for purchasing pure-bred poultry and no set price that will accurately determine their value. A pure-bred flock that has been bred for many years for either fancy points or egg production or both, is apt to produce pullets of great breeding value. They are worth more money than ordinary stock because of the blood lines. The qualities for which they are noted have been stamped on them by many years of careful breeding operations and they are able to produce progeny of like qualities.

A flock of pure-bred poultry might be carelessly bred with no effort made to select the best and most vigorous birds for reproduction. At the end of a few years the stock might be purebred and yet worth no more than the market value of scrub stock.

We do not like to buy pullets in large quantities as some poultrymen do. Usually it is the beginner who wishes to purchase a large number of pullets so that the dream of a large egg production can begin promptly. Frequently the pullets purchased do not come up to expectations. If pullets are purchased it is better to sacrifice quantity to quality and buy a few first-class birds as foundation stock for the larger flocks which are to be raised at home.

The poultryman or farmer who raises his own pullets can cull them rigidly and keep the best. The others can be sold on the market if they are of little value as breeding stock. It does not pay to sell the cull pullets where they will be used for breeders, as too often it causes disappointment. When buying pullets, care should be not to purchase the culls from another breeder. Examine the pullets carefully. Find out their age and see if their development corresponds to their age. If possible study the breeding stock from which the pullets were produced.

Pure-bred pullets as foundation stock for poultry flocks should be worth at least seventy-five to one hundred per cent more than scrubs. But do not stop there. It also pays to classify the pure-breds and not buy fundation stock just because it is purebred. It must have other points of value to make it a profitable invest-R. G. KIRBY. ment.

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West Mich. " 11 1" 2 " 2 " "
Saginaw " 10 1" 4 " 2 " " Every Animal Bred At
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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

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RALPH S. SMITH, Kewadin, Mich.

Herefords. Just purchased 3 new herds, now have 150 head; we offer you anything desired either sex, horned or poiled, any age. Priced reasonable. THE McCARTYS, Bad Axe, 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, Maxwaton Sulton and White Hall Sulton, Model Type, by the Oscola Co. Shorthorn Breeders Ass. John Schmidt, Sec. Reed City, Mich.

SHORTHORNS For Beef and Milk

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

BIDWELL STOCK FARM
Box B, Tecumseh, Mich.

Richland Stock Farm SHORTHORNS

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 Olty, Mich. Berds at Prescott, Mich.

Ionia Co. Breeders Ass'n

Have for sale Reg. Shorthorns, Herefords, Angus,
Holsteins, Jersey, Red Polls and Brown Swiss Cattle.
Shropshire, Hampshire and Rambouillet sheep.
Poland China and O. I. C. swine.
FRED W. BRIOKLEY, Sec., R. 3, Ionia, 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 Clay bull calves. Davidson and Hall, Tecumseh, Mich.

Special Offer Shorthorns— Cows \$250 to \$300 Bulls \$200 to \$250 Wm. J. Bell, Rose City, Mich.

SHORTHORN BULL CALVES FOR SALE. Chas, Metzel & Sons, Ithaca, Mich.

Milking Shorthorns of best Bates breeding 2 3 and 7 months old for sale E. H. Kurtz Mason, ich. Milking Shorthorns No stock Ifor ROSEMARY FARMS, Williamston, Mich.

For Sale Several choice young Shorthorn cows and families. E. S. Batcheler, R. 6, Howell, Mich.

Shorthorns Good Scotch bred bulls, cows and heifers priced right,
W. B. McQUILLAN, B. 7, Howell, Mich.

2 cows \$300 each, 1 bred heifer \$250, 2 heifer calves \$100 each. Bulls all ages, \$100 and up Central Mich. Shorthorn Asso., Oscar Skinner, sec., Gowen, Mich. Shorthorn Bull calves for sale, 4 to 17 months old dams are good milkers.
FRANCIS BENNETT, R. 3, Big Rapids, Mich.

Red Polled Bulls For Sale

HOGS

Registered Berkshire Boars; ready for service, A few gilts and sows bred for May and June farrow. Also spring pigs. CHASE STOCK FARM, Marlette, Mich Registered Berkshire boars for sale. Satisfaction guaranteed also Ancona cockerels. Prices JOHN YOUNG, Breckenridge, Mich.

Duroc Opportunity

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 git bred to him. It payed this man to use one of our boars it will

To payed that we are offering at prices which appeal to 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.

BROOKWATER FARM, Ann Arbor, Mich.
HERBERT W. MUMFORD, owner,
J. BRUCE HENDERSON, Manager.

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

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

DUROC JERSEYS CAREY U. EDMUNDS, Hastings, Mich.

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

Mr. Boar Buyer. The best bargains in the state in boars, breeding, individuality and price considered, is at Michigans Farm. All ages. Sired by Panama Special, Brookwater Orion Specialty, and the Principle 19th. Satisfaction guaranteed.

O. F. Foster, Mgr., Pavilion, Mich.

Pleasant View Durocs ring boars and gilts. Well bred and individually d. Prices reasonable. Inspection invited. W. C. BURLINGAME & SON, Marshall, Mich.

Duroc spring boars. Sired by Orion Cherry King Col. 2nd, first aged boar at State Fair. These boars priced reasonable. W. C. Taylor, Milan, Mich.

Registered Duroc Boars We have a choice lot of spring boars, sired by Michigan Cherry Col. No. 118479. Ira Jackson selected this boar to 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. Siref by the Grand and Junior Champion boars. F. J. DRODT, R. I., Monroe, Mich

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



HAVE started thousands of breeders on the road to my creat her in every community where I am not already represented by these fine early developers—ready for market at any ments old, write for my plan—"More Money from Hogs."

G. S. BENJAMIN, R. F. D. 10. Portland, Michigan

Chester Whites, spring and fall stock for sale von highest honors against strong competition. F. W. ALEXANDER, Vassar, Mich.

WORLD'S CHAMPION THE big type O. I. C's. Stock of all ages for sale. Herd headed by Callow Edd, the World's Champion IO. I. Commented the Stock of the World's Champion IO. I. Champion for a seriested by C. O. Schoolmaster. Grand Champion for a tohigan, New York and Tennessee state fairs. Aley. C. C. Giant Buster, undefeated Senior boar pig wherever shown and Grand Champion of Oklahoma state tair. Get our catalogue of Orandell's prize hogs, Cass City, Michigan.

O. I. C. and Chester White Swine

Strictly Big Type with quality. Spring pigs of March and April farrow. A choice lot of boars. Will only spare a few more glits at present. Will ship C. O. D. and record them free. Newman's Stock Farm. Marlette, Mich. R. No. 1.

Big type O. I. C. boars of good size and quality also a few choice gilts. Will ship C. O. D. and register free. Elm. Front Stock Farm, WILL THORMAN, Prop., Dryden, Mich.

O. I. C. 20 Choice Young Clover Leaf Stock Farm, B. 1, Boars and a few fine gilts. Monroe, Mich.

O. I. C's. I will ship 0. O. D., pay the express sold in Oct. and Nov. F. C. Burgess, R. 3, Mason, Mich. O. I. C's. Last spring boars all sold. Have an extra good lot of last spring gilts, good fall pigs not akin, Good stock, registered free. 3 mile west of Depot.
OTTO B. SCHULZE, Nashville, 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, inspec-tion invited.

ALLEN BROS. MICH.

Boars 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.

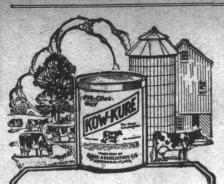
J. C. BUTLER, Portland. Mich.

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

LARGE Type P. C. the largest in Mich. Spring boars I 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 Eth. expenses paid if not as advertized. W. E. Livingston, Parma, Mich.

Dig Bob Mastodon Sire is Caldwell Big Bob Champion Dof the world, his dam's sire was the Grand Champion at Iowa State Fair, Boars' ready to Ship. O.E. Garnant^{*} Eaton Rapids, Mich.

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



Cow HEALTH to as Important as Good Feeding

When a cow's milk yield falls off, it is more likely to be a question of health than of food. Over-feeding will only make matters worse. Milk cows are subject to im-pairment of digestive and genital organs and the milk production is immediately reduced.

These vital organs can be toned up and strengthened by feeding KOW-KURE, the great cow medicine. This remedy is also used in treating such ailments as Abortion, Barrenness, Retained Afterbirth, Scouring, Bunches and Milk Fever. The best dairymen keep it constantly on hand. Sold by feed dealers and druggists; 60c and \$1.20.

Send for valuable free treatise on cow eases, "THE HOME COW DOCTOR".

Dairy Association Co.

Sold By Druggists and Feed Dealers

Cut Feeding Costs MAKE BIGGER HOG PROFITS

HOGS fatten faster and' have clean, warm water all winter. Make more money and save feed by giving them all they can drink.

WESTERN HOG WATERER

money-maker for thousands of farmers, one go to work for you. Works automat-y—saves feed, time and trouble.

Can't Freeze in coldest weather—made iron—double walls—new, simple method of filling—improved oil burner. Money-Maker Year Around — furnishes warm water in winter, cool water in summer —makes money for you every day in the year. Sold on money back guarantee.

FREE Write today—post card will do— for illustrated folder, "How To Save Feed" and our special low price offer. WESTERN MANUFACTURING CO. 510 'Depot St. Washington, Iowa



ard Work-a-Ford

mission. Hooks up in 3 minutes, No perma attachment to car. Cannot injure car or engine. Friction Clutch Pulley on end of shaft. Ward Gover nor, run by fan belt, gives perfect control, Money bac if not satisfied. Ask for circular and special price WARD MFG. CO., 2038 N St., Lincoln, Neb.



Please mention The Michigan Farmer when writing to advertisers.

FEEDING CATTLE IN DEMAND.

ANY country buyers have been arriving in the Chicago market in search of feeding cattle, and there are many stockmen who prefer to place their orders with commission men, the aggregate numbers purchased and shipped out being very large. Some former buyers say they will stay out the coming winter, regarding the outlook as too uncertain, because of the great fluctuations that have taken place in cattle values, but it seems probable that as much feeding will be carried on as usual. The average farmer who grows corn sees prices for that cereal ruling far lower than earlier in the year, and he wants to convert his corn into beef and other meats, regarding the chances for making fair profits as promising. Then most farmers have considerable roughage which helps out materially, and then there are the silos everywhere, which so much reduce the cost of fattening cattle for the market. 'Most investors in feeding stock are steering clear of buying the highest priced lots and also avoiding the inferior cattle, despite their decline in prices at a time when good lots have been advancing. Many lots of desirable feeders have been selling in Chicago from \$10 to \$11 or up to \$11.50, with a limited number taken as high as \$12 to \$13, and poor lots selling for \$6.25 to \$8. Before long the time for marketing range cattle will be ended, and after that higher prices for fair to good feeders may be looked for.

The market for beef cattle keeps on widening out, with advancing prices for the relatively few choice beeves offered, and declining values for the many ordinary class of grass-fed cattle. As the season advances the marketing of cattle increases in volume, and the aggregate receipts in the seven leading markets of the west, comprising Chicago, Kansas City, Omaha, St. Louis, St. Joseph, Sioux City and St. Paul, are running greatly ahead of those for the corresponding time last year. Fancy steers sold the other day on the Chicago market at \$19.45, the highest price recorded since last May, while the poorest lots of canning steers sold down to \$8 to \$9. Beef steers have been selling largely at \$13.75@ 18. The bulk of the cattle sell much higher than a year ago, and prices are far above those in other years. Eight years ago steers sold at \$4.40 to \$9.15 per hundred pounds.-F.

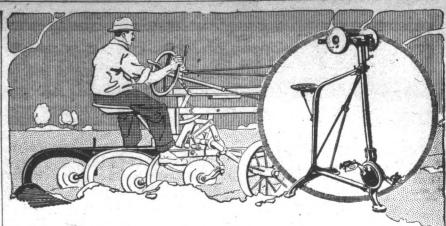
LESS LIVE STOCK FROM CANADA.

SHARP curtailment of the shipment of live stock from Canada to American markets is foreseen as a result of the repeal of the Canadian reciprocity act which may mean restortion of the duties on stock imported into the country. Previous to the removal of the duty some years ago, virtually no cattle from Manitoba, Saskatchewan or Alberta came to northwestern markets, but in recent years thousands of head have been consigned by Canadian shippers.

The hardy nature of the Canadian feeders has made them favorites with many corn belt buyers. Fat grades have not always been favorites with packer buyers, however, as experience demonstrated that often stock freshly arrived after a long trip does not prove good for dressing. Tariff barriers, if raised, would stop the bulk of this business.

DIRECT BUTTER MARKETING.

M ANY milk condensers in Wash-ington state are now delivering butter direct to the retail trade in coast cities. Condensaries are shipping twenty thousand pounds daily to the Seattle output, and are constantly increasing this production.



Then You Can Add **Another Bottom**

The same power that pulls a gang-plow of two dull bottoms will just as readily pull three well-sharpened bottoms. This has been proved at many of the U. S. experiment farms.

A sharp plow cuts the soil with little resistance, speeds up the job and saves time, power and profit for the farmer. Sharpening plow-points is a simple, oneman job when you have a





Pedals like a bicycle. pressure required—no water or oil to cool the steel. The head swivels, making the most awkward tool easy to grind.

The DIMO-GRIT wheels of the "Hummer" sharpen twenty-five times as fast as a grindstone, without drawing the temper. Plow-points, mower sickles, cultivator blades, ensilage knives, harrow discs, axes and all other cutting tools can be sharpened in a few minutes—easily and safely.

The "Hummer" is built like a cream-separator-all-metal constructiondust-proof ball bearings-worm gear drive.

SEND 25c FOR DIMO-GRIT POCKET HONE

Send 25c in stamps for a DIMO-GRIT pocket hone. See for vourself how quickly it puts a keen edge on even the dullest jack-knife.

Grinder Mfg. Luther

The Largest Makers of Farm Repair Tools in the World Dept. 121 MILWAUKEE, U. S. A.

DISPERSION

REGISTER OF MERIT JERSEY CATTLE YPSILANTI, MICH., FRIDAY, NOV. 21, 1919

We will sell our entire herd, including the following record cows:

ı		Milk in 1 year	Butter	Age
	Salem Betsey 207880	10198.8	583 lbs. $4\frac{3}{4}$ oz.	11
	Salem's Golden Lucy 271911	12543.6	768 13	5
	Eminent Lad's Angela 397028	7211.7	419 43	1
Ì	Salem's Betsey Beauty 254075	12282	$653 3\frac{3}{4}$	6
	Lady Edith of Hillside 309345	11542	641 151	4
	Jean of Hillside 343679	8681.1	535 10	2
	Rioter's Lady Signella 232131	7756.6	537 131	11
	Dairy Vixen 278194	9193.5	658 13½	5
1				

Theirs sons and daughters, and daughters of other high testing cows comprise the offering, which includes six bulls all of Butter producing blood.

Col. D. L. Perry, Columbus O. Auct. J. V. Cotta, Sales Mgr. Crawfordsville, Ind. FOR CATALOG ADDRESS

C. & O. DEAKE, Ypsilanti, Mich.

HOGS

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

Big Type P. C. Spring Pigs her sex. A. A. WOOD & SON, Baline, M

Miller Meadows. L. T. P. C. Ready to ship immune None better in Mich. Write or come and see. 24 miles west of Marshall. Clyde Weaver, Ceresco, Mich

P. C. Boar Long bodied, heavy boned, with best of breeding, Satisfaction guaranteed.

B. W. MILLS, Saline, Mich.

BIG TYPE POLAND CHINAS with quality, that make big money for buyers. Pigs of both sex, of different ages; and bred sows for sale. Write or call anytime

Write or call anytime.
G. A. BAUMGARDNER, R. 2. Middleville, Mich. Big Type Poland Chinas. Spring boars by HILLOREST BOB, by BIG BOB. Out of sows by Grand Master and Hill-crest Wonder. Also Fall Pigs.
HILLOREST FARM, Kalamazoo, 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

arge Type Poland Chinas for sale; something good in spring boars; write or see them; free livery from anchester. A. A. Feldkamp, R. 2, Manchester, Mich. LARGE TYPE Poland China springs pigs.
E. H. EISELE, Manchester, Mich.

Additional Stock Ads. on Page 607



SECOND EDITION.

The markets in this edition were revised and corrected on Thursday afternoon, November 6.

WHEAT.

Resales of flour and accumulations at frontier points has resulted in an easier tone in the wheat market. On the other hand, rain in the southwest has damaged much wheat in shock and losses have also resulted from threshed grain being piled into the open waiting for cars to move it. Local prices are unchanged as follows:

ı	CD U	VI C	Conn.	-		~~	7,	9	۳.	77	7.	-				00 07	
	No.	1	red										٠			\$2.27	
	No.	1	mix	e	d		0									2.20	
	No.	1	whi	t	e							٠		٠		2.25	
	No.	2	red												٠	2.24	
	No.	3	red													2.20	

CORN.

Firmer conditions in the corn market are dependent largely upon the scarcity of grain. The recent downward shift of prices has caused farmers to hold back on deliveries. The car shortage is causing real anxiety among shorts. Also, farmers are busy cleaning up their fall work. Provisions and hogs have also advanced since the recent heavy dip in prices On Chicago's firm market No. 2 yellow is now quoted at \$1.59@1.62; No. 2 mixed at \$1.59@1.61½; December \$1.39¾; May \$1.32¾. Detroit prices have advanced a dime during the past week as follows: week as follows:

No.	3	corn .			٠.					\$1.60
No	3	yellow								1.62
No.	4	vellow						é		1.60
No	5	yellow						•	•	1.59

OATS.

The firmness in the corn market has aided in advancing oat prices. Some dealers are of the opinion that this market will recover from its present dullness as soon as domestic demand becomes normal. On the local market there is a short supply with local and eastern buyers fairly active. Present prices here are:

No.	4	white					$.75\frac{1}{2}$ @76
No.	3	white				٠	.761/2@77
No.	2	white			٠		

RYE.

There has been some export business to neutral countries which with local buying has advanced prices on this market several cents. Present quotation for cash No. 2 is \$1.40½ per bushel.

BARLEY.

The buying of this grain by exporters has developed a firmer and higher market Present local quotations are up a nickel to \$2.70@2.80 per cwt. for cash No. 3.

BEANS.

Little change is noted in the general stuation of the bean market throughout the past week. The trade has ruled dull with the jobbing trade slow and the export business of meagre volume. At New York choice Michigan pea beans are quoted at \$7.75 per cwt. do common to fair \$7@7.50; medium, choice \$7.75; do common to fair \$7@ 7.50. At Detroit trading is dull with some demand at \$6.75 per cwt. for immediate and prompt shipment. The absence of buying orders and ample supplies gives the Chicago trade an easy tone. Pea beans, hand-picked, choice to fancy, are quoted at \$7.25@ 7.75; red kidneys \$13@13.50.

Stock bulls 5.00@ 5.50

9.00@10.00

Stockers 7.00@ 8.50

Market steady. Lambs 84 lbs down, medium, good, choice and prime \$\$5.00@13.00

\$12.25@15; do 85 lbs up, medium, good choice and prime \$\$5.00@13.00

\$12.25@15; do 85 lbs up, medium, good and choice at \$6.75@8; spring lambs, medium, good and choice at \$6.75@8; spring lambs, medium, good and choice \$6.75@12; ewes, cull and common \$10.50@13.25.

Receipts 1,689. Market dull at Wedchoice and prime \$\$12.25@15; do 85 lbs up, medium, good and choice and prime \$\$12.25@15; do 85 lbs up, medium, good and choice and prime \$\$12.25@15; do 85 lbs up, medium, good and choice and prime \$12.25@15; do 85 lbs up, medium, good and choice and prime \$12.25@15; do 85 lbs up, medium, good and choice and prime \$12.25@15; do 85 lbs up, medium, good and choice and prime \$12.25@15; do 85 lbs up, medium, good and choice and prime \$12.25@15; do 85 lbs up, medium, good and choice and prime \$12.25@15; do 85 lbs up, medium, good and choice and prime \$12.25@15; do 85 lbs up, medium, good and choice and prime \$12.25@15; do 85 lbs up, medium, good and choice and prime \$12.25@15; do 85 lbs up, medium, good and choice and prime \$12.25@15; do 85 lbs up, medium, good and choice and prime \$12.25@15; do 85 lbs up, medium, good and choice and prime \$12.25@15; do 85 lbs up, medium, good and choice and prime \$12.25@15; do 85 lbs up, medium, good and choice and prime \$12.25@15; do 85 lbs up, medium,

POTATOES.

The potato markets are generally firmer throughout the country. At Michigan loading points farmers are receiving from wagons for round whites U. S. grade No. 1, \$1.60@1.90 per cwt., with the majority of the offerings taken at \$1.60@1.75 and at Wisconsin warehouses mostly at \$2. The Detroit market early this week was slow and dull with Michigan U. S. No. 1 stock bringing \$3.75@4 per 150-lb. sack and \$2.40@2.60 per cwt in bulk. The same grade in Cleveland is quoted at \$3.85 per 150-lb sack, and mostly

HAY.

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 timothy \$28.50 (29; No. 1 clover \$24 (25. Pittsburgh.—Quotations here are a little lower, although the demand continues good. Quotations are: No. 1 timothy \$28.50 (29; No. 1 clover mixed \$29.50; No. 1 clover \$31 (20.21) (

Holdings in the central west are being gradually reduced. Prices generally are advancing as a result. In Detroit Michigan flats of June make are quoted at 33½c and do new make at 31½c; single daisies 32c; bricks 33c. Chicago market quotes twins at 30½c and double daisies at 31¾@32c. The whole milks bring 31½@34c for specials and 31c for average run in New York. The range for the same grade in Philadelphia is 31@32½c.

EGGS.

EGGS.

Solow and dull with Michigan U. S. No. 1 stock bringing \$3.75@4 per 150-lb. sack and \$2.40@2.60 per cwt in bulk. The same grade in Cleveland is quoted at \$3.85 per 150-lb sack, and mostly \$4 in Pittsburgh, and \$2.50@2.60 per cwt. in Chicago where the demand and movement is good and market firm.

BUTTER.

While the trade has been along narrow lines, yet there is sufficient demand to keep the various channels well cleaned up and to prevent accumulation. Consumption has fallen off

EGGS.

Continued mild weather has maintained production above normal, and receipts are somewhat larger than anticipated. As a result, buyers are somewhat indifferent and the demand is not quite as pressing as it has been. The big trade is in fresh stock. Storage eggs have a fair movement. Detection to be per dozen. The Chicago market is steady, with firsts quoted at 58@59c per dozen; ordinary firsts 50@52½c. In Philadelphia western extra firsts now bring \$20.10 and firsts \$18.90@19.50 a case.

WOOL

A real movement apparently has been started for taking care of the accumulations of medium wools. Already the market has recovered till dealers are no longer required to make reductions to move these grades. German agents are said to be operating in England, South America and South Africa. In Boston the best fine unwashed delaines sold last week at 85c. Comparatively little choice staple is now available.

DETROIT CITY MARKET

The variety of offerings is being considerably reduced. Cabbage is now in evidence, with sales generally at 75c per bushel. Potatoes bring \$1.55@1.65; fancy apples \$3@3.25; No. 1 at \$2@2.75; onions at \$2.25@2.75; keifer pears \$2@2.75; live hens 26c per lb; springers 24@27c; fresh country eggs 62@63c.

NEW YORK PRODUCE MARKET.

Butter.—Receipts of butter continue to show some decline but as demand has weakened somewhat there is sufficient fresh arrivals to meet it. Then, too, held butter has been moving readily and has taken the place to a great degree of current make. It is not ex-pected that there will be any material break in quotations, even though there will be fluctuations from time to time. Export demand has been good for the last few weeks, but at present export trading is very quiet. Quotations are as follows: Extras 69½c; higher scoring than extras 70@70½c; firsts 61@69c; seconds 55@58½c.

Cheese.—The cheese market has become firmer throughout the week as a result of strong demand. The produc-tion of cheese is declining very rapidly at present which is the one factor largely responsible for the increased price. Following are the established quotations: Common to good 29@31c; average run 31½@32¼c; specials 32½

BUFFALO.

Live Stock Market Service

Reports for Thursday, November 6th

Lambs were selling here today at \$14.75 and calves at \$20. Hog prices ranged from \$15.75@16, with the bulk at \$15.75 and the outlook promising further declines.

DETROIT

Receipts 3,010. Canners	and	good
cattle steady: others 50@7	oc lowe	er.
Best heavy steers\$	12.00@	13.00
Best handy wt bu steers	9.50 @	10.50
Mixed steers and heifers	8.50@	9.00
Handy light butchers	7.50@	8.00
Light butchers	6.00@	7.00
Best cows	7.50@	8.00
Butcher cows	6.50@	7.00
Cutters	5.50@	6.00
Canners	5.00@	5.25
Best heavy bulls	7.00@	7.50
Bologna bulls	6.00@	7.00
Stock bulls	5.00@	
Feeders	9.00@	
Stockers	7.00@	8.50
Milkers and springers	65@	150
Vent Calves		

at \$8.50@10.50; light weight 1100 lbs down, good and choice \$14@19.75; do common and medium at \$7.50@13.85; down, good and choice \$14@19.75; do common and medium at \$7.50@13.85; butcher cattle, heifers, common, medium, good and choice \$6.50@14.50; cows, common, medium, good and choice \$6.50@14.50; cows, common, medium, good and choice \$6.25@11; canners and cutters, cows and heifers \$5.25@6.35; do canner steers \$5.50@7.25; veal calves, common, medium, good and choice \$17.50@18.50; feeder steers common, medium, good and choice at \$6.56@10; do cows and heifers, common, medium, good and choice \$6.35@8; stocker and cuttails production. Quotations: Seconds 54@59c; firsts 59@64c; extra 69@70c.

Poultry.—Receipts have shown some increase this week and have declined and doubtless will continue to do so until colder weather arrives and cuttails production. Quotations: Seconds 54@59c; firsts 59@64c; extra 69@70c.

Poultry.—Receipts have been fair firsts 65@68c; extras 69@70c.

Poultry.—Receipts have been fair and the market has been vacillating. Quotations: Spring chickens 23@27c; fowls 24@27c; old roosters 20c; ducks 30@31c; geese 25c.

Sheep and Lambs.

supplies gives the Chicago trade an easy tone. Pea beans, hand-picked, choice to fancy, are quoted at \$7.25\top 2.75; red kidneys \$13\top 13.50.

SEEDS

Clover prices show a further decline of 50c as follows: Prime spot and December red clover \$30; alsike at \$29.25; timothy \$5.50.

APPLES.

Aside from deliveries from farmers' wagons trade is chiefly interested in barreled goods and choice \$14.65\top 15\$ best of the standard varieties. Mich best defand and command steady prices in Chicago the best grades in best defand and command steady prices in Chicago the best grades are in Detroit market.

FEEDS.

Wheat feeds are steady, while corn grades are moving at \$7\tilde{9.15}\$ on the Detroit market.

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Wheat feeds are steady, while corn grades are moving at \$7\tilde{9.15}\$ on the Detroit market.

FEEDS.

SEEDS

Receipts \$.604. All grades \$15.

CHICAGO.

Hogs.

Receipts \$.604. All grades \$15.

Barby parting \$15\tilde{9.15}\$ best shipping steers \$12\tilde{12.50}\$; best shandy stress stream height space and prime \$15\tilde{0.004}\$ best vesting \$110.000 king parting \$15\tilde{0.004}\$ best vesting \$110.000 king parting \$15\tilde{0.004}\$ best vesting \$11.60\tilde{0.004}\$ best vesting \$11.60\tilde{0.004}\$ best vesting \$11.60\tilde{0.004}\$ best vesting \$11.60\tilde{0.004}\$ best vesting \$10.000 king \$1.60\tilde{0.004}\$ best vesting \$10.000 king \$1.

(Continued from page 578). killed and twenty-three injured.-Rioting is reported in Alexandria, Egypt.— Labor leaders declare no general strike will be called in support of the steel

Tuesday, November 4.

THE federal commission of concilia-tion in the coal strike proposes that the federal government withdraw HE federal commission of conciliathat the federal government withdraw its injunction against union leaders, that the men immediately return to work, and that the pay be advanced from fifteen to twenty per cent, beginning with the first of November or when work is resumed.—Senate fails to agree on a date for the roll call on the peace treaty.—Japan sends Kijuri Shidehara as her new minister to the United States.—State troopers will cooperate with the sheriff of Wayne county and the police of Detroit in an effort to prevent criminals from escaping from the city.—Railway workers

WOOL PRICES CHANGE IN ENG-LAND.

THERE was a steady opening in the seventh series of wool auctions which began at Bradford, England, on October 28. Sales of the best merinos were occasionally two to three cents below the September high level. Crossbreds were very firm. Low, medium sorts, greasy and scoured were often five per cent higher. There was very little American buying.

A BIG FUR SALE.

THE fur exchange in New York City started selling a million furs on Thursday. Following are the offerings:

Sixteen hundred beavers, 17,000 skunk, 5,000 marmoset, 15,000 Hudson seal and Hudson seal plates, 5,500 minks, 5,500 nutrias, 2,000 raccoons, 16,000 nearseal and sealines, 500 otters, 2,500 wolves, 1,000 wildcats, 1,000 cat lynx, 40,000 squirrels, 30,000 moles, 12,000 caraculs, 2,000 badgers 2,000 civet cats, 17,000 ringtail opossum, 5,000 Australian opossum, 10,000 American opossum, 500 martens, blue foxes, white foxes and cross foxes, 3,500 red foxes, 20,000 weasels, 9,000 pounds of rabbits, 2,000 fitch, 1,000 flying squirrels, 1,500 greasy foxes, 2,500 Australian foxes 5,000, kolinskys, 2,500 dyed foxes, and 3,000 rats.

eterinary.

CONDUCTED BY DR. W. C. FAIR.

Weak Heart-Stocking.-I have span of horses seemingly in good health, but neither of them perspire freely, both of them blow and puff. Another young mare stocks in one fore leg. I first noticed this swelling eight weeks ago. Our local Vet. fails to help her. J. W. M., Yale, Mich.—Give each horse 30 drops of fluid extract of nux vomica, and 1 dr. of muriate of ammon-ia at a dose in feed three times a day. Dissolve ¼ 1b. acetate of lead in one gallon of cold water and wet thickened part of leg three times a day. Give her 1 dr. of acetate of potash in feed

twice a day.
Dislocation of Stifle.—I have blocky four-year-old mare, apparently sound, but twice last summer she suddenly but twice last summer she suddenly went lame in one hind leg, dragged toe on ground and had no use of the leg, but she soon gets over it. I might say she is not absolutely right in either leg. When young she had an attack of navel disease. G. H. H., Sand Lake, Mich.—The whole trouble is either in stifle or in the surrounding parts, most likely the stifle. Apply equal parts of turpentine, aqua ammonia and raw linseed oil to stifle three times a week. Inflamed Eyes.—I have a three-year-old filly that has sore eyes, both eyes are inflamed, cover with a film, but whatever the ailment is, she is worse some days than on others. I have been applying burnt alum and this seems to

some days than on others. I have been applying burnt alum and this seems to clear the eyes but they are yet sore. L. S. R., Yale, Mich.—Dissolve 40 grs. of boric acid and 40 grs. of borate of soda in a quarter of a pint of water and apply it freely to eyes twice a day. Give her 3 drs. of Fowler's solution at a dose in feed or in drinking water three times a day.

Diarrhea.—I have a cow that is off.

Diarrhea.—I have a cow that is off her feed. When she eats oats or corn it goes through her whole. She seems somewhat fond of grass, but fails to eat much of it. She came fresh about four weeks ago, but failed to eat much four weeks ago, but failed to eat much for a couple of weeks before she fresh-ened. She gives 12 quarts of milk daily, her normal yield is 28 quarts. G. L., Manistee, Mich.—Give her a tea-spoonful of dry powdered sulphate of iron and 1 oz. of ground gentian in each feed, or as a drench in water

three times a day.

Inferior Milk.—Just before one of our cows goes dry she gives lumpy milk. We also have another cow that gives stringy milk at times. L. B., Kalamazoo, Mich.—Perhaps your cow was milked once daily or once in every two or three days before she went dry. This would have a tendency to change her milk. A change of feed is perhaps all that she required. When your other cow gives stringy milk, give her a teaspoonful of hyposulphite of soda in feed twice a day.

FEED UP

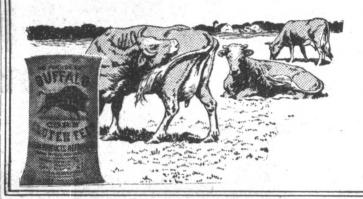
MARK that Mr. Dodge, the man who feeds "Sophie 19th of Hood Farm," world's long-distance champion cow, says the feed a cow gets is every bit as important as her breeding.

Mark, also, the high-protein feed he feeds her is Buffalo Corn Gluten Feed.

Your cows will ring the cash register if they get the right kind of ration, one with plenty of Buffalo Corn Gluten Feed in it.

CORN PRODUCTS REFINING CO. Write H. CHRYSTAL

Selling Representative 909 Ford Bldg., Detroit, Mich.



Come to Headquarters for

COTTONSEED MEAL and CAKE PEANUT MEAL — COCOANUT MEAL

"Our Brand On The Tag Means Quality In The Bag"

F. W. BRODE & CO., MEMPHIS, TENN.

Established 1875 Incorporated 1915

SHIP YOUR

POULTRY, VEAL and HOGS

TO

J. W. Keys Commission Co.

470 Riopelle St., Detroit, Mich.

Eastern Market

You Will Get a Square Deal and Returns Daily.

For Best Net Results Ship to

CULOTTA & JULL

Detroit, Mich.

"Enough Said!"



HAY Ship To The Old Reliable House

Daniel McCaffrey's Sons,
623-625 Wabash Bldg.. Pittsburgh Ps.

1st. H. O. SWARTZ. Schooleraft, Mich.

B. T. P. O. The best males I ever raised, none better
in Mich. Recorded free. Priced reasonable.
175lbs. to 200. John D. Wiley, Shooleraft, Mich.

Soy Beans

I want 1919 crop soy beans. Send samples, state quantity offered.

EDW. E. EVANS, West Branch, 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 satisfaction with every shipm

HOGS.

Big Type Peland Chinas. We aim to keep our herd in size and in quality. We have sows sired by Big Bob, the Yankee, Gerstdale Jones and Gerstdale King, Our herd boar is one of the largest and smoothest and of choice breeding. He is proving to be a great sire, We like the good ones and believe you de also. We now have a litter of 10 "Clansmans" and the dam booked again for spring litter to the Clansman. Visitors welcome.

Big Type Poland Chinas Spring gilts and boars, we can furnish pairs not re-lated. Frize winning stock at Tuscola County Fair, also fall pigs at the right price. DORUS HOVER. Akron, Michigan.

LARGE type P. C. If in need of a boar I have them, sired by Big Ben, good husky fellows. Inspection invited. J. R. BROWN, R. 7, Cassopolis, Mich.

PiG Type Poland China boars for sale also a few tried sows. Write for delivered prices. Hill Haven Stock Farm, F.Chapman & Son, Props, Vandalia, Mich. Bis type P.C. Choice spring boars from Iowa's greatest herds out of 100 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 III. Grand Champlon. The big boned, deep, long bodied kind at farmer's prices. Wah-be-me-me Farms. White Pigeon, Michigan

T. P. C. Sow and 9 pigs price \$105, spring boar long and talk will be reads to ship after Nov. H. O. SWARTZ, Schoolcraft, Mich.

Large type P. C. Spring boars and gilts now ready to Ship. Also one fall yearling boar and fall pigs. CLYDE FISHER, R. 3, St. Louis, Mich.

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

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

Must make room for brood Sows. Will sacrifice L. T. P. C. spring boars, priced for quick sale. Fall pigs either sex. H. M. JEFFRIES, St. Louis, Mich.

Pine Boy, Grand Champion boar of N ichigan, Bred and owned by us. Many other prize winner at Michigan State Fair 1919. Hog's for sale all ages, both sex, "Lookout Joe", a \$1000 boar heads our herd. GEO. COUPAR & SONS. R. 1, Marlette, Mich,

Spring Hampshire, bear pigs for sale. Fall pigs from new blood lines, JOHN W. SNYDER, R. 4, St. Johns, Mich. Fairview Stock Farms Tamworths. Registered spring pigs for sale, either sex, from massive ancestors. W. H. Warner, Concord, Mich.

HATCH HERD YPSILANTI, MICHIGAN Registered Yorkshires. The World's Bacon Breed. From Imported strains.

SHEEP

Whittum Farm Shropshires 50 good ones includ-lambs. None better to start a new flock or improve the old one. 10 imported, one and two year old

THE WHITTUM FARM, Eaton Rapids, Mich



PARSONS, Grand Ledge, Michigan

BUYASHEEP

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 order to finish the ram trade quickly I will re you your choice of a dozen very good year-gs at \$35.00. lings at \$35.00.

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

The Ingleside Farm, Ionia, can 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 lambs of good quality and some ewes all registered.
DAN BOOHER, R.4, Evart, Mich.

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

Wool-Mutton Shropshire Rams For sale cheap.
Also few ewes.

Royally bred; strong, robust fellows.
A. H. FOSTER, Allegan, Mich.

M able Lawn Farm Shropshires. Rams and ram lambs. High bred, well wooled and registered.

A. E. Bacon & Son, R. 4. Sheridan, Mich.

Registered Shropshire bred ewes. 1 to 3 years old. Large, healthy, well fleeced representatives of this flock gave satisfaction in 15 states, last season rams all sold. C. Lemen, Dexter, Mich.

Registered Shropshire sheep, 30 rams and 40 ewes.
HARRY POTTER & SON, Davison, Mich.

For sale, Reg. Shropshire rams yearlings and 2 yr.olds \$30 to \$50, one 4 year old ram sired by Coopers (\$120), I will pay return express if they are not as I represent them.

C. V. TRACY, Ithaca, Mich.

Reg. Shropshire Ram Lambs with both size. C. K. Topliff, Eaton Rapids, Mich.

For Sale Reg. Shropshire Rams and Ram lambs of R. J. & C. A. WILLIAMS, Middleville, Mich.

Reg. Shropshires Yearling Rams and ram lambs. Special price on lots of two of more. B. D. KELLY & SON, Ypsilanti, Mich.

25 Shrepshire ram lambs, big growthy fellows, woolmutton type. 30 extra good ewe lambs. G. P. ANDREWS, Dansville, Mich.

For Sale. Registered Oxford rams, 2 ram lambs 1, Abbott, Phone Deckerville, 78-3 R. 2, Palms, Mich.

For Sale Registerd oxford Down yearling rams and lambs also a few choice ewes.

D. F. Beasore, R. F. D. No. 1 Eaton Rapids, Mich. Registered Oxfords To close out yearling rams at bargain prices.
O. M. YORK, Millington, Mich.

For Sale-Yearling Black Top Delaine Merino rams from the well-known Chas. Kleckler flock-Prices and stock right. See them on the farm Mile east of Cohoctah. JOHN WRIGGELS-WORTH, GEORGE GEHRINGER, Cohoctah, Mich.

CHOICE delaine rams, also 2"B" type stock rams of high quality, large, oily fleeces, shearers, write. S. H. Sanders R No. 2, Ashtabula, O.

Lincolns Choice 2 'yr. old reg. rams out of imported stock, also 50 reg. breeding ewes.
B. L. LYBROOK, Berrien Springs, Mich.

Polled Delaine Rams for sale. Good heavy shearers.
F. L. BROKAW, Eagle, Mich. Hampshire and Rambouillet rams for sale yearlings and lambs.

A. A. WOOD & SON, Saline, Mich.

60 Good Breeding Ewes For Sale HILLCREST FARM, Kalamazoo, Mich.

HORSES

Percherons, Holsteins, Angus, Shrapshires, Ources DORR D. BUELL, Elmira, Michigan.

Less Work More Milk

Two pounds of milk may seem a small amount, but to increase the milk yield two pounds per cow daily, means a large increase in the profit from any

If you have thirty cows, two pounds more per cow daily would be sixty pounds, worth about \$2.00. During the winter season this would total \$350 or

Truly, this is an extra profit well worth seeking, especially since there is no expense connected with it, aside from the small initial investment in drinking cups.

Water costs practically nothing and to be able to turn water into milk with no effort further than to keep the water supply tank filled, is about as easy a way of making money as one could ask.

Hoard's Dairyman Finds **Drinking Cups Profitable**

"In the stables of the Hoard's Dairyman herd are installed 42 drinking cups, one for each cow. The installation of these cups providing the cow with plenty of water whenever she wants it night or day has resultated in a preventible increase of milkshe wants it night or day has resulted in a perceptible increase of milk. It reminds us of the remark made some years ago by a Wisconsin dairy farmer to the effect that although well water was about as free as air, it was the last thing properly provided for the cow. A visit to the stable say at 9 o'clock at night will discover quite often a number of the cows taking a comfortable drink from their. quite often a number of the cows taking a comfortable drink from their water cups. We are convinced that this is a highly profitable investment to make. Pure water ready at any time and pure air are two things that greatly promote the production of milk."—Hoard's Dairyman Editorial, Feb. 1 1918 Feb. 1, 1918.

"According to our milk records", says W. H. Martin, who is herdsman at Arcady Farm, Lake Forest, Illinois, "James drinking cups increased our milk yield 4 lbs. per cow, per day. With our herd of 97 cows, the cups save two hours daily."

Herman Oleon Cambridge Witcom

Herman Olson, Cambridge, Wisconsin, "Considers James Cups in relation to outside tank as the modern silo is to the old way of feeding dry cornstalks outside on the snow bank."

Walter Bringold, Wanamingo, Minnesota, is another who puts James cups in the same class as the silo for milk making. "If I could have but one, judging from my experience," he says, "I would rather have the drinking cups than the silo, as I believe the drinking cups make more milk."

What James Cups Accomplished in 28 Herds

Twenty-eight dairymen who kept milk records reported the following results from the use of James Drinking Cups:
One had an increase of from 5 to 10

One had an increase of from 5 to 10 lbs. per cow per day; three an increase averaging 4 lbs.; three had 3 lbs. average increase; six, 2 lbs.; three, 1½ lbs.; one, ¾ lb.; one reported \$8.56 average increase per cow per year; one an average increase of \$5; one, \$10; one a 3% increase; one 8% increase; two, 10% increase; one, 12½%; one, 20%; and one, 33½%.

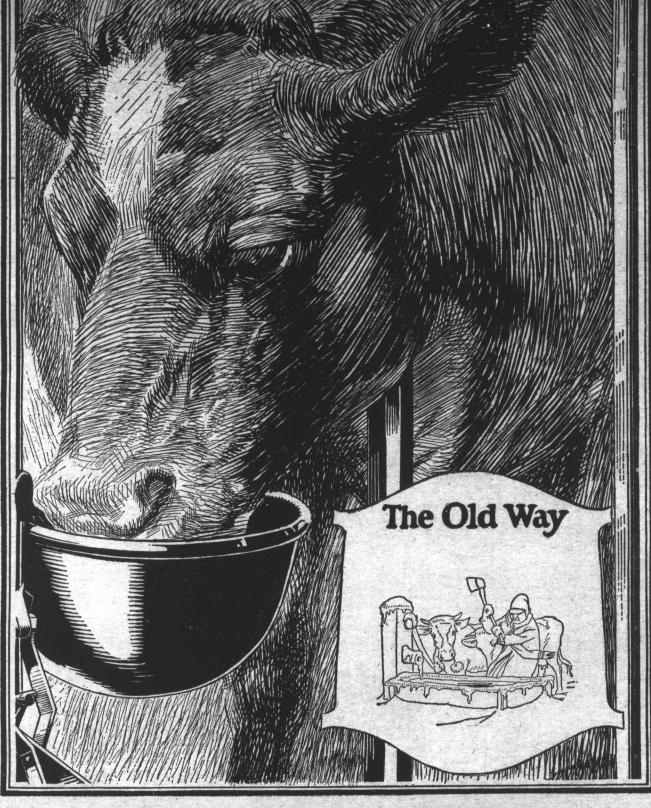
These reports covered a total of 759

These reports covered a total of 759 cows, averaging an increase of 2.45 lbs. milk per cow per day.

The Saving in Labor

In a recent investigation of 120 herds in which James cups were used, the owners were unanimous in stating that the cups saved them time and labor.

Their answers ranged from 1/2 minute per cow, per day, to 10 minutes per cow, average being 10 hours saved per cow, each year.



the James Wa

Out of 87 dairymen using James cups in their calf pens, 80 say that they have "observed that calves grow better and faster by having a constant supply of water before them."

Help Prevent Spread of Disease

These dairymen were almost unanicups help prevent the spread of disease, each cow drinking from her own

Above are a few of the facts brought to light in this investigation of James drinking cups. The complete results are set forth in Bulletin No. 4, which will be sent on request.

The Calves Grew Faster Other Work Savers and Milk Makers

Such as the James litter, feed, and milk can cariers and trucks, cow stalls, stanchions, mangers, cow pens, bull and hog pens, ventilators, swill carriers, horse stable fixtures, hog, sheep, and beef barn equipment, are described in the book, "The James-way" which will be sent on request.

Barn Planning

For many years, the James Barn Planning Department has been helping customers and others in planning new barns and remodeling old barns. In this work, Mr. James has associated with him a competent architect and engineer of unusual experience in

ventilation and construction problems, another architect who has many years of experience in the planning of new buildings and remodeling of dairy barns, a large number of experienced draftsmen—and in the field are some 60 experts whose work takes them daily into dairy barns in every part of the country, consulting on remod-eling and other barn problems, draw-ing preliminary plans and reporting on new ideas and unusual conditions.

All this experience and ability in the planning of new or remodeling old dairy barns, is at your service.

Full information regarding the James barn planning service and all James equipment is given in the

Free Barn Book

of 336 pages entitled "The James Way" which will be sent on request. Please state number of cows you own If interested in hog barn equipment ask for the "Hog Barn Book".

You want more milk from your cows—you want less work—write for it today.

James Manufacturing Company

Ft. Atkinson Wis. Elmira N.Y. Minneapolis, Minn. Makers of Labor-Saving Barn Equipment