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#### CURRENT COMMENT

Farm Bureau Policies

tive work which they have accomplish- ization is entitled to the same measure ed. In addition to a phenomenal mem- of business service as is his neighbor bership campaign much constructive who belongs to such an organization, work has been done along other lines, and that it is the bureau's business to including the formation of the wool render it. Inversely this line of reapool, the taking over and extension of soning implies that the member of a the activities of the seed department, cooperative organization which is affilthe organization of an efficient traffic iated with the bureau, as in the case department, the inauguration of a pur of the elevator exchange, but who has chasing service for county organiza. not signed up as a farm bureau memtions, the establishment of an elevator ber, is not entitled to any measure of exchange as a department of the bu- farm bureau service. reau, the extension of good offices in an effort to secure an equitable adjust- ion, and along almost the same perment of the sugar beet controversy, sonal lines, relates to the purchasing etc with the degree of success which has the one class of leaders believe should attended them under the conditions be left to local cooperation, except in which have prevailed, is a matter for a few generally used bulk commodities congratulation, not only to the officers which can be handled in carload units, of the organization, but to the entire membership as well.

The experience gained in the year's program. work should be of great value in the future direction of the activities of the the farm bureau would seem to depend bureau along right lines. The ideas of not a little on the wise solution of those who have directed its activities these problems. Quite probably, as is during the past year as to the proper generally the case, the best solution future policies of the organization, lies somewhere midway between the should be given much greater individ- extremes of thought regarding them. ual weight than the ideas of members who have not had that experience or borne that responsibility. Fortunately this is insured by the fact that the term of service of only one-third of greatest good for the greatest number. the directors expire each year, which makes possible a continuity of effort along any lines which may be established. But the officers and directors doubtless will welcome a general expression of opimion on the part of decisions regarding future policies. thinking members of the bureau who have the keenest interest in its development along constructive lines.

Conversation with many leading farmers among the rank and file of the bureau's membership reveals two separate and quite distinct schools of thought regarding the general policies which the organization should pursue in its future work. One of these ideas, and one quite prevalent among leaders of agricultural thought, is that the bu- A. C., Other articles of this series will given. reau should be the connecting busi- treat on "Credit and Cash Transac- Professor Henderson, of the Departness link between local cooperative or- tions;" "Records of Dairy Cattle;" ment of Teaching of the University of ganizations developed along commod- "Methods of Keeping Feed Records;" Michigan, made a strong appeal for um grades. ity production lines or along the line "Crop Records;" "Cost of Tractors the county unit of schools, and stated of strictly local community service, and Other Farm Equipment," and that the city boy or girl had about two since cooperative effort has reached its "Balancing a Farm Business." As the years the start of the country child highest development along these lines reader will note, the subject of farm in an educational way. Different comin our own state as well as the world book-keeping will be treated in this munities showed varying costs of cenin our own state as well as the world book-keeping will be treated in this munities showed varying costs of cen-over. This rather generally advocated series of articles from the standpoint tralized schools. At best, however, the Railway traffic between Belgium and policy would result in the affiliation of of an aid to good farm management few extra dollars where such was the Germany has been suspended, presum-

of this policy is that it would be con- careful reading by every subscriber. ducive to the financing of cooperative memberships. along other lines.

who believe in the centralization of all on the part of the farmers of the en- keting problem is extremely acute: possible business activities in the state tire state. THE Michigan and county organizations under cen-State Farm Bu- tralized direction for service along reau has made won- geographical rather than production or derful progress during strictly community service lines. Those its first year. Its offi- who favor this policy reason that the cers and directors are farm bureau member who is not now to be congratulated on the construc- affiliated with any cooperative organ-

Another apparent division of opin-That these activities have met activities of the organization, which while another class champions a much more extreme and complicated-buying

> The economic business success of The most constructive program is always one which encourages the best teamwork in the attainment of the desirable end of accomplishing the

> Farm bureau members should think over these problems and discuss them. to the end that intelligent opinion may be so crystallized as to aid the responsible heads of the organization in their Do not put all the responsibility on the directors and then criticize them if the course they pursue does not coincide with your views.

Farm Bookkeeping

the bureau for the rendering of ser- transactions. Viewed from this stand- was a good investment. The arguvice which the central organization point, every progressive farmer will ments for consolidated schools were could best accomplish, leaving the lo- have a deep interest in the subject un- most convincing. cal phases of the work to local man- der present conditions, when it is even In the absence of several speakers agement, and the further promotion of more important than ever before that scheduled for the program, Mr. Mcincreased organization activities along an accurate check be kept on the sev- Bride discussed the wool situation, special production and local commu- eral departments of a farm-business showing how the difference in exnity service lines. One of the argu- from the profit or loss standpoint, change allowed the purchase of nearly ments generally advanced in support hence we bespeak for these articles a three pounds of wool in Australia with

strength of the bureau would be mate- ty-five or more farmers in any county ule, when exchange is considered. rially enhanced by the affiliation of the have signified their interest, Mr. Eliot

#### Farmers' Clubs Annual Meeting

• HE annual meeting of the Michigan State Association of Farmers' Clubs convened in the Sen-

Home Economics Department of the Agricultural College under the direction of Miss May Person, was exquisite and unexcelled. President Kedzie and faculty members, including Professors Shaw, Edwards, McCool, Eliot and oth ers as hosts to the assembled club members were good mixers.

The Reverend Willets, of Lansing, spoke for the church at the banquet. He painted a picture of a rural conmunity in one of the newer states which saved not itself financially, but educated its young and coupled with religious training placed a large number of its succeeding generation in places of honor and trust. The Reverend Cutler, of Grass Lake, plead for a centralized rural community with church and school as the binding tie.

President Alfred Allen, in his annual address, spoke for an agricultural program that would stabilize prices for farm products. Miss Person, of the Michigan Agricultural College, described the growth of the Home Economics Department, and impressed the necessity of a new building for carrying on the work. It is scarcely realized by many what a great woman's college has developed on the campus at the M. A. C.

Hon, James N. McBride spoke of the acute economic crisis that had come to the farmer by the decline in prices, and outlined the causes as indifference to agriculture by the present administration and no organization of agriculture to cushion the fall as is the case with other industries. Farm prices were thirty per cent above pre-war, while industrial prices were one hundred per cent above. Other industries like steel and iron, had leadership to N another column make and meet prices, while agriculof this issue will be ture had no outposts or guides of an isch, socialist, is elected president of found the first of a ser- economic character. An outline of Austria by the national ies of articles on this plans for a national marketing associa-general subject by tion with a dozen or more warehouses general subject by tion with a dozen or more warehouses Professor Eliot, of M. and a centralized selling agency was

existing cooperative organizations with rather than as a mere record of farm case, required in a consolidated school,

one dollar, where the same money As a means of further aiding inter- would buy only two pounds of our enterprises on a sounder'and more sub- ested farmers in this direction the ex- wool. There is now no tariff duty on stantial basis and would tend to the tension department of the college has wool, and the difference in exchange creation and maintenance of more gen- planned for county or community acts as a bounty on imports. The reeral interest by keeping the direction schools for the study of farm book- lease of two billion pounds of wool of local activities in the hands of local keeping as related to farm manage- held by the British government had al-Those who favor the ment. Farmers who desire to avail lowed continental Europe to manufacadoption of such a policy on the part themselves of this service should so ture woolen products at wages of of the bureau point out that the advise their county agent. When twen- about one-fifth of the American sched-

Samples of blankets were shown by many strong cooperative organizations will arrange to hold a brief school of Mr. McBride which with ten pounds of in the state not now connected with it, instruction for their benefit, explain- wool in the grease plus five dollars for and that this plan would afford ample ing the nature and purpose of the rec- manufacturing, would make a pair of scope for centralized business activi- ords which have been prepared by the superb woolen blankets or an excepties without hampering the desirable department of farm management for tional auto robe at about one-half the influence of the central organization that purpose. This practical applica- present retail price. Under present tion of farm records should meet with conditions and a new wool crop com-On the other hand there are many general appreciation and cooperation ing on, the solution of the wool mar-

> L. Whitney Watkins described the necessity of farming being put on a business basis, and of the farmer becoming a real business man. A. B. Cook, of Shiawassee county, presented a plan of a non-partisan primary. Entry could be made by petition, a very small number of names being requirate Chamber at Lansing, December 7- ed. If any one candidate for governor The annual banquet served by the received a majority of all the votes cast, he was then declared elected, not merely nominated. If there was no one having a majority, then the two highest candidates at the primary became the sole contestants at the regular November election.

The following officers were elected for the ensuing year: President, Alfred Allen, Mason; vice-president, Lee S. Noble, Oxford; secretary-treasurer, Mrs. I. R. Johnson, Rushton, corresponding secretary, Mrs. C. A. Taggett, Fairgrove: new directors, Mrs. J. S. Brown, Howell, and C. E. Bond, Carson City.

#### News of the Week Wednesday, December 8.

'HE state department concludes that Armenia needs a credit of \$25,000,000.—General Semenoff, former leader of the anti-Bolshevist forces in Siberia is seeking refuge in Manchuria.-The chief secretary of Ireland declares in the Britsh House of Com-mons that there can be no truce until extreme leaders of the Irish re publican army have surrendered.

Thursday, December 9.

S ECRETARY HOUSTON urges the passage by congress of an income tax measure carrying a higher rate .-The Greek government addresses a The Greek government addresses a note to former king Constantine ask-ing him to abdicate in favor of the crown prince.—The immediate forma-tion of \$100,000,000 export trade cor-portion is being urged by bankers, public officials, manufacturers and agricultural leaders at a meeting in Chi-cago.—Federal Commissioner of Education states that we lack eighty thousand teachers in the United States. Friday, December 10.

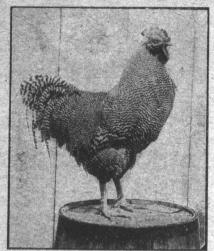
THE League of Nations votes to admit Bulgaria as a member of the League.—Desperate attempts are be-ing made to save the International Court of Justice project.—Dr. A. Hainssempi committee at Washington.-The car situation has so improved that there need be little apprehension as to the ability of the roads to move commodi-ties.—London wool sales are light with a slightly improved demand for medi-

#### Saturday, December 11.

HORACE E. DODGE, auto manufac-turer, dies at Palm Beach Florida. —Secretary Daniels states that the United States will probably have the bargest pays in the world by 1922

(Continued on page 779).

### Breeding Poultry for Practical Utility A Heavy Investment in Fine Buildings and Breeding Stock is Not Necessary



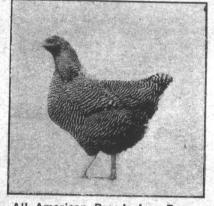
The American Class of Poultry Include the Plymouth Rocks.

• HE fact that less than ten per cent of the specialized poultry farms in the country have been in operation more than eight years, while during the past seventy-five years the combined value of the poultry and poultry products on general farms has increased from twenty-five million to one and one-quarter billion dollars, is proof sufficient that the farm hen is as inseparable from profitable agriculture as the land upon which the crops are grown. The success of the average farm flock in converting the waste feeds into the most wholesome food products in such liberal quantities suggests almost unlimited possibilities for the farmers who will develop the business along intelligent and conservative lines. Complete success, however, will only come as a result of the use of better breeding stock, the and that these more uniform products able feedstuffs and the most unremit- cent premium in any large market. ting devotion to detail in housing and It is a difficult problem to convince make the effort worth while.

utility means breeding for both egg vigor. good and essential qualities that meet for fifteen, eggs for incubating cellence.

or mongrelizes a flock of poultry for dozen.

the study of "Origin of Species," but flock of mongrels are kept and pay may reasonably expect from a larger life is too short and breeding prob- some profit it is easy to understand business. The sooner the flock reaches lems too complex for anyone, other why fully eighty per cent of the farm the two hundred-layer mark the better than a scientist, to attempt to work poultry is still made up of mongrel and the farmer who is planning to make it the theory of evolution out backwards. mixed breeding. One obcessed with the "57" variety idea will find pickle manufacturing farm flock has prompted many good ing poultry on two farms within a few more profitable than poultry keeping. farmers to build new poultry houses miles of large cities, is that the two been produced for the purpose of regular branch of their farming. There meeting the requirements of the poul- is no question but that the farm aftry-keeper and supplying the demands fords an ideal environment for sucof the market which he is furnishing cessful poultry-keeping, but when the with eggs and meat. Experiments at farmer begins to devote more time and a number of the leading stations indi- capital to poultry, he is sure to see cate that when other conditions are the necessity of figuring production



All American Breeds Lay Brown-shelled Eggs.

generous use of a good variety of suit- will command from ten to twenty per

handling. The small farm flock of from the average farmer that pure-bred two hundred to four hundred hens, fowls possess an advantage over mixwell bred, well fed and well tended, ed birds for egg or meat production. will certainly coin money for those He believes-and many times experiwho are willing to give it a sufficiently ence has shown him-that a pure-bred prominent place in their farming to flock is more susceptible to disease, possesses less vitality and produces In discussing the problem of breed- fewer eggs than mongrels he has kept ing for practical utility I want to make for years. When such an experience it clear at the beginning of this series is true it is the result of some unforof articles that I am not advocating tunate experience with pure-bred birds breeding for general utility. General that possessed inferior constitutional

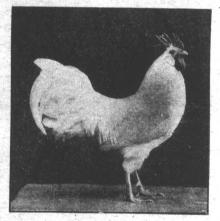
and meat production. Practical utility It is possible, however, to interest means breeding for a definite purpose the farmer in a straight business prop and improving the birds along lines osition that will add from ten to twenwhich shall add to their commercial ty per cent more income without advalue. Breeding for practical utility ding to the cost of production. This Single-comb White Leghorn Cockerel. should be the aim of the farmer re- is the angle from which we must work gardless of whether the flock is kept to convince farmers of the superior her pullet year, and eight of her sisters for the production of market products merits of the pure-bred flock over birds or the sale of breeding stock. Breed- of mixed breeding. It requires no long ing along lines that add commercially argument to convince the farmer that sire of this to the value of the flock in no sense there are several ways of marketing hen which laid 213 eggs in her pullet involves the formation of new princi-standard-bred poultry. A man who has year and 536 eggs in three years. The ples and theories, but the direct ap- a good flock of Rhode Island Reds or plication of those already understood White Plymouth Rocks, can sell eggs article and who laid 214 eggs in her and thoroughly approved No one for a private fomily trade a for a for a for a for a private for the second sec and thoroughly approved. No one for a private family trade, a few set pullet year and 654 eggs in four years. breed of fowls possesses all of the tings for hatching under hens at \$1.00 the demands of the markets at a low poses baby chicks for market and for and gradually work into the business. cost of production, yet the fowls that breeders, mature stock for breeders, The writer has made a careful study most nearly meet the general demands for exhibition purposes and for the of methods best suited to developing in both market and the cost of produc- general market. The man with a mon- a poultry business in connection with tion are found within the breeds that grel flock has opportunity to sell eggs general farming. One of the reasons have been bred for years to conform for the general market only, and must so many farmers fail with poultry is to a well recognized standard of ex- dispose of his surplus stock at the go because they never get far enough into ing market prices. Of course, he can it so that they give it a regular place The first object in breeding pure- always find a good market for good in their general scheme of farming. bred poultry is to produce products eggs, but even then eggs of uniform For that reason it is desirable in many that will meet the demands of an ex- size, color and quality always com- ways that one start large enough to acting trade. The person who crosses mand a premium of several cents per make that branch of farming of suffi-

pens. Not only this, but he is failing mongrel flock will produce quite a few may pay to keep a small flock for a

The remarkable success of the small The leading breeds of poultry have and plan to make poultry-keeping a hundred-layer flock is the minimum equal the pure-bred flock will produce costs and producing a grade of eggs eggs and meat at a lower cost per unit, and meat that will command the best market prices.

The average lay of eighty eggs per hen must be doubled and the quality of the products greatly improved if modern methods of breeding, feeding and housing are practiced to the extent if too many birds are kept on the natthat is practical under general farm ural range. conditions. A heavy investment in fine results of his practice.

To dispose of the mixed flock, in vest in high-priced pure-bred stock and adapt themselves to routine feeding, expensive buildings is no sane way for mature early and they certainly can the farmer to embark in the poultry lay. That there is no one best breed business. A definite plan of action is for egg production has been clearly necessary in the formulating of which demonstrated by numerous experimany things must be given proper con- ments. Reports from hundreds of egg-



Out of a hen which laid 230 eggs in and half-sisters produced as follows in their pullet year: 180, 187, 195, 196, 198, 208, 235 and 240 eggs. The sire of this cockerel is the son of a

our vise the farmer to start in a small way cient importance to give it the attenthe purpose of increasing egg yields Probably the greatest drawback to the which is necessary to make the improvement of farm flocks today venture a success. Of course, if the ward and intensifying the bad quali- is the fact that mongrel and cross-bred farmer knows but little about poultry Laid 214 Eggs in Her Pullet Year and 654 Eggs in Four Years.

to take advantage of his marketing op- eggs under general conditions on the year, but that is another matter. A portunities and producing a grade of farm-eggs that represent clear gain, small flock of hens that have free products fit only for the general trade. since expenses and amount of capital range of a farm is sure to give one a A flock of cross-bred, mongrel fowls invested are so small as to be practi- rather hazy idea of the proper care of may serve as an ideal background for cally nothing. And as long as a small the flock, as well as of the profits one a profitable branch of general farming.

The experience of the writer in keepthat can be kept at a maximum profit. The smaller flock requires too much time per unit of production to make it worth while to give it proper attention, and when more than four hundred layers are kept it is necessary to invest too heavily in special equipment and spend too much time looking after the management to give due attention to other activities of the farm. Then, too, range problems are greatly complicated and one must spend more time looking after the sanitary surroundings

The breed and strain of birds does buildings and breeding stock is not not matter unless one is catering to a necessary to put the farm flock on a special market. In some sections the money-making basis, but one must white-shelled eggs command a premihave a clear understanding of the bus- um of five or ten cents per dozen. iness and a willingness to give the Some other markets prefer eggs with flock painstaking care and study the brown shells. The majority of poultrymen prefer White Leghorns for producing white eggs as they readily sideration. Many poultry experts ad laying contests show that it is within the capacity of any of the popular breeds to make a remarkable showing. Wyandottes, Black Langshans, Rhode Island Reds, Leghorns and Plymouth Rocks have won the honors in different contests. Such results are sufficiently convincing to demonstrate that high egg production depends as much upon the man and his methods as it does upon his choice of a breed. The same thing holds good in the production of market poultry with any of the breeds possessing the necessary size and meat-making form. The small Mediterranean and other fancy breeds should not be grown for heavy table food.

When one decides to improve the quality of the poultry on his farm, the cost of the new birds frequently causes him to hesitate about making the change. Not long ago a farmer living 180, 187, 195, near an agricultural college became in-240 eggs. The terested in kepeing better poultry, terested in kepeing better poultry, sold his flock of one hundred and twenty hens and bought forty-six pure-bred



### Congress Begins a Busy Session Many Bills Promising Help to Agriculture, Presented-By E. E. Reynolds

packed in anticipation of the appear- make a fair statement of their condi- boards of trades. The bill imposes a itself. ance of President-elect Harding on the tion to the bankers. He quoted figures tax of ten per cent of the value of the Notwithstanding the opposition of floor. said the President-elect in a brief ad- on discounts of agricultural paper. The on all contracts for future delivery ex- and Governor Harding to the rehabilidress to the senate. "We have our full present situation on the farms was cept when made by farmers, dealers tation of the War Finance Corporapart in the redajustment of human af- compared to a crop failure which is or manufacturers who are buying and tion, the joint senate and house comfairs after the world tumult. We have seriously felt, but leads to no general selling for actual delivery. Records mittee investigating the agricultural our tasks at home, we have our part bankruptcy. in the inevitable work of the civilized world. I am sure that the necessity Governor Harding asked, "for a farmer to the collector of internal revenue. Senator Norris, of Nebraska, directing of wise solution will inspire us to work to sell a portion of his products, and Persons making such contracts must the secretary of the treasury to revive together, to take common counsel, to hold the balance." He could repeat also register with the internal revenue the activities of the War Finance Corbe tolerant of one another and give the this process, gradually marketing his collector for the district in which he poration, and that said corporation be best which is in all of us to attain the crops. "It is impossible to do busi- has his place of business. A penalty at once rehabilitated with the view of ends which become our republic at ness with Germany," he said, "because equal to fifty per cent of the tax lev- assisting in the financing of the exhome, and will maintain its high place her reparations had not been fixed. ied and in addition a fine not exceed- portation of agricultural products to among the nations of the earth. With Germany merely signed a blank check ing \$10,000 or imprisonment for not foreign markets. The Federal Reserve propriety I cannot venture upon any that had not been filled in." suggestions now, even though I am Referring to Senator Hitchcock's violators of the act. Senator Capper tion as may be necessary to permit the speaking as a member of this body. proposed bill for the relief of the cat- says, "there is not the slightest doubt member banks of the federal reserve Three months of the present adminis- tle raisers, Governor Harding said the that the gigantic raid made by the system, in accordance with law and tration remain, and I would have the cattle business stands on a different bears on the Chicago Board of Trade consistent with sound banking, to house and senate join cordially in basis from anything else, and demand- was the chief cause of the recent dis- grant liberal extension of credit to the making them fruitful rather than ed relief which would benefit every- astrous slump in the price of farm farmers of the country upon the securwasted months.'

pared for an unusually busy session, ment of the powers of the farm loan bear raid. Brokers and commission counting of such notes of extension, with agricultural relief legislation in banks to enable them to make direct houses have cleaned up over forty mil- at the lowest possible rates of interest. the forefront. For nearly a week be- loans running as long as two years to lions in margins and commissions Two bills were introduced by Senafore congress convened, daily confer- cattle men. This would result in great alone. The lambs who play the mar- tor A. B. Cummins, of Iowa, relating ences on the farming situation were good and would relieve the banking ket have lost more than one hundred to the agricultural situation. One held in the senate office building. All situation. phases of remedial legislation were discussed at these conferences. The outstanding features were the testimmonies of Secretary of the Treasury Houston and Governor W. P. G. Harding, of the Federal Reserve Board.

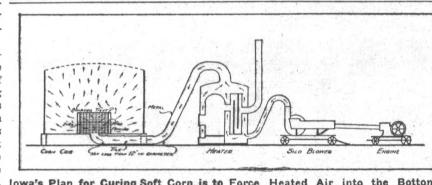
Secretary Houston said he expressed the view soon after the armistice that there would be a recession of prices, and in the January following he made a statement warning farmers and all others to prepare for just such a situation as we now have. He does not know of any feasible means that the treasury can adopt to relieve the situation that would not create a worse "that there has been no contraction of credits, also that there has been a great increase in exports during the present year.

tries could be financed so they could the loan value and commodity value incident of such trading, but the main of the anti-trust laws through the opbuy more American farm products, of a product are inseparable. In an- part of the business on the boards of erations of foreign governments in the Secretary Houston said he doubted if swer to the charge of profiteering by trade as we find it now, it is time for grain markets. "One of the causes for the War Finance Corporation would the Federal Reserve Banks, Governor the government to take a hand. These the recent slump in the price of help. shall make loans to firms engaged in these banks had earned 6.9 per cent on honest basis and compelled to con- Steenerson, "was the dumping upon exporting. When the corporation was their capital stock of \$100,000,000 and tribute to the security of business and our markets of millions of bushels of functioning, only a few concerns were the reserve balances of banks amount- the welfare of the country. I find all Canadian wheat and several million in a position to take advantage of the ing to \$1,800,000,000. aid provided, and these are the people who would get most of the benefit ernor Harding professed sympathy for ent system and are anxious to stop change this gave the Canadians a bonnow by the rehabilitation of the War the farmer in his present plight, it was gambling in farm products." Senator us of fifteen to thirty cents on \$2.00 Finance Corporation, unless exporting plainly evident that the farmers need Capper introduced his bill in the sen wheat. It is a clear case of manipulatfirms handling farm products are or- not expect any remedial action on the ate on the second day of the session, ing the market by artificial means and company in the south and the \$100,- Federal Reserve Board. Congress will the house by Congressman Robert E. wheat and flour to come in free, has 000,000 corporation now being organ- undertake to pass several bills aiming Evans, of Nebraska. ized in Chicago, also the \$22,000,000 to help the farmers in securing finanlive stock pool, were mentioned as be- cial aid and marketing their products, Arkansas, has introduced a bill in the Senator Smoot, of Utah, has intro-

make loans to foreign countries on se- ministration will receive the sanction necessary to maintain a large number on wool, including retroactive duty curity that business would not accept. of the executive department. He added that nothing more fateful could happen to the nation than to SENATOR Capper's bill providing for means of communication to persons of the act of October 3, 1913, levying embark on an unknown financial policy. "If we were to undertake some of faxes upon contracts for the future of the proposed law would be punish- from wool and admitting the importato a condition with which other na- cotton , and options for such contracts, ment from six months to two years, duty, will be suspended and the imtions are confronted."

HE sixty-sixth congress conven- do their part and carry over loans on and blackboard and put out of business is restricted so that both the seller and

Governor Harding opposed the plan in speculating on cotton and wheat. permit the extension of short-term



"that there has been no contraction of the Crib by Means of Silo Blower and Furnace.

Representative T. H. Caraway, of manipulation.

have no fear that the banks would not gress. It will eliminate the wheat pit ing in the field. And this transaction as the act shall be repealed.

ed December 6, for its final ses- staple crops for which there is no thousands of bucketshops, by making purchaser must contemplate the actual sion, with the senate galleries market, provided the farmers would it impossible for gamblers to deal on delivery and acceptance of the crop

"We are facing no easy task," showing there had been no restriction property covered by such contract up- Secretary of the Treasury Houston must be kept of all transactions and a situation has ordered a favorable re-"Would it not be the best policy," report made by both buyer and seller port on the concurrent resolution of more than one year, is imposed upon Board is also directed to take such acbody in the nation. Senator Hitch- products. The farmers have already ity of the agricultural products now Both the senate and house were pre- cock's bill provides for the enlarge- lost more than a billion dollars by the held by them by permitting the redis-

million dollars in the last ninety days amends the farm loan act so as to loans to farmers on agricultural products. The other requires the department of commerce to make immediately available reports from commercial attaches as to agricultural conditions in foreign countries.

BILL imposing tariff duties of A forty-five cents a bushel on imports of wheat, and \$1.80 a bushel on flour, was introduced in the house by Representative Tincher, of Kansas, and a similar bill was introduced in the senate by Senator Capper. Representative Steenerson, of Minnesota, has a bill in the house imposing a tariff of thirty cents a bushel on wheat, \$1.35 a barrel on flour, and thirty per cent advalorem on other wheat prodof issuing certificates on wheat in Every city and town in the United ucts. Congressman Steenerson also warehouses. He argued that the rate States has its victims. The pure func- introduced a resolution in which he R EPLYING to Senator Norris, of Ne- per bushel loaned would set the price tion of boards of trade is valuable, but calls upon the Federal Trade Commis-braska, as to how foreign coun- for the wheat or other products; that when gambling becomes not merely an sion to investigate alleged violations The law says this corporation Harding gave figures showing that exchanges must be placed upon an wheat," according to Representative grain and cotton dealers, millers, and barrels of Canadian flour free of duty. While Secretary Houston and Gov- spinners recognize the evils of the pres- On account of the difference in exganized. The \$12,000,000 exporting part of the federal treasury or the and a similar bill was introduced in the Underwood law which allows been used as an instrument in this

ing a movement in the right direction. but there is little expectation that any house to eliminate gambling which he duced a bill placing an embargo on The secretary of the treasury did measure which will in any way change claims has an advantage over Senator wool, and Representative Sinnott, of not think that the government should the present financial policy of the ad- Capper's bill in that it would not be Oregon, has a bill putting an embargo of officials to enforce it. His bill de- from December 6, 1920. If Senator nies the use of the mails and all other Smoot's bill becomes a law, sections of the schemes suggested we would go delivery of grain, grain products and able by a fine of \$10,000 and imprison- tion of wool and wool waste free of will stop gambling in wheat, corn, cot- The Caraway bill prohibits any tran- portation of wool, manufactures of Governor Harding, of the Federal ton and other farm products by mak- sactions in farm futures except where wool, wool wastes and wool on the Reserve Board, declared farmers need ing use of the taxing power of con- a farmer desires to sell his crop stand- pelt will be prohibited until such time

### 752 - 4

### Feed Prices Uneasy at New Low Levels Just How These Markets Stand is Told by Sanders Sosland.

REEDSTUFFS are cheap, but mar- time were far below the present basis, rather than a bulge upward in corn, as possible and substituting cheaper Money, in other words, is the dominating factor in the trade in feedstuffs.

down in the depression in prices of the around a cent a pound at middle west ing will continue of a small volume is would tend to further restrict the feeds, the smallest in the past two or terminals. Millfeeds declined around doubtful, however. Farmers are be movement from the country and at the three years. Indicative of the extreme \$4.00 to \$5.00 a ton, cottonseed cake and meal are off about \$10 from the quotations of a month ago, linseed feed is down \$6.00 to \$7.00 a ton, alfalfa meal and alfalfa molasses feeds are off more than \$5.00 a ton. In the market for alfalfa, tame and other varieties of hay, quotations are only slightly lower than a month ago, having shared a small upturn before the renewed depression set in. The forage trade, however, is doubtless in a weaker position than other feedstuffs.

The strained financial situation is probably being felt most by the forced liquidation of cattle and other live stock to meet maturing obligations. On some middle west markets recently the glut of cattle has been so serious that appeals have been made to country shippers temporarily to check any further loadings. And, despite the enormous supply of various feeds available in the country, there is a remarkable absence of an active demand for stocker and feeder cattle, due, of course, to inability of producers to obtain funds with which to purchase stock. This necessarily is forcing a contraction in the demand for feeds. There is also strong pressure to force the sale of corn, oats, hay and other feeds from farms to meet loans. Cottonseed crushers who normally would now be accumulating large stocks of cake and meal for the spring and summer trade and for possible advance in prices, also are forcing = their products on the market as rapidly as possible. With few exceptions, ginning to realize that they will have same time broaden the consuming outthe crushers have not the credit facil- a large surplus on hand and rather lets. Other feeds, of course, would low prices, it is difficult to gather any ities to permit tieing up thousands of than carry loans, pay tax and allow share in a stiffening of prices on this dollars in stocks. Every branch of the the grain to deteriorate and shrink, account. feedstuffs trade, including the manu- many are placing their corn in comfacture of commercial feeds, is affect- mercial channels. Inability to buy cat- mand rather than supply, are the gov- operators are buying very sparingly, ed by the strained credit situation in the and hogs for fattening purposes, the United States.

W ITH country dealers bidding dency to stimulate the movement. farmers only thirty-five to forty cents a bushel and as low as twenty- ONE of the strongest arguments in chaotic and panicky condition in the very small scale, the sharp contraction five to thirty cents a bushel at some One favor of a maintenance of corn flour trade and the extremely light de- in demand for both the fertilizer and

kets are not yet firm at the ex- cost of production was considerably Even the coarse grain may go down products. For this reason, interior tremely low levels, largely be- less and the purchasing power of the further, but the feeder will probably mills have shared a light demand from cause of a lack of credit for making dollar was much greater than today. make no mistake in buying his needs feeders in their own community, thus purchases. It is true that many feed- Most attention in the corn trade of the cereal around a cent a pound. pressing greater stocks upon the marstuffs are selling below the cost of pro- centers around the probable extent of The trend of prices for oats hinges ket, and, in the face of the small outduction, but even this does not mean the sales by farmers. Certainly the almost entirely on the fluctuations in put over the country as a whole, the that the bottom has been reached on market will break further if a hormal corn. The grain can now be bought jobbing trade has reported quite libmarkets in view of the powerful finan- heavy winter run of corn is witnessed. as low as forty cents a bushel on some eral supplies available. cial deterrent confronting buyers and There is a serious lack of absorptive middle west markets, with the quota- Bran is selling in Minneapolis when banks are in a position to lend corn. Practically no important con- between forty-five and fifty cents. Re- carlots on prompt shipment orders, more freely and when they are not fac- suming section in the country is short luctance of farmers to dispose of their and as low as \$25 for December and ing so generally as at present the nec- of feed, at least markets have not yet products at current prices is being re- January. In Kansas City, another imessity for liquidation of loans, will discovered a board outlet in any sec- flected by the small oats movement to portant millfeed center in the west, feed markets develop a stronger tone. tion, either in the east, southeast, markets, but demand for the grain is the lighter offal is bringing between south or in other territories. Even of such a small volume that the scant \$26 and \$27 a ton for prompt shipment, the export outlook is not promising. arrivals fail to impart any strength to \$25 to \$25.50 for December, and down Practically every feed was carried But farmers are not manifesting any the trade. The exceptionally mild to \$24 for January delivery, basis that eagerness in disposing of their surplus weather over most of the country has market. Chicago quotes a range of \$30past month. As the pressure of new production on the basis of the current materially reduced the demand for to \$31 a ton, and in St. Louis the range crop offerings increased in the coun- prices; in fact, the purchases by coun- oats, and cheaper feeds are being sub- of prices is between \$30 and \$32 a ton try, corn fell to the level prevailing try elevators since the completion of stituted as much as possible. A mark- for both hard and soft winter supplies. at this season in the year which mark- harvest have been of an extremely ed change in weather conditions, The market on bran is off about \$3.00 ed the opening of the world war, light volume. Whether the farm sell- which may be expected at this season, to \$4.00 a ton between the two wheat

the consuming trade generally. Only power on terminals, particularly for tions in Chicago at the present writing around \$27 to \$28 a ton, sacked, for weakness in shorts is the offering of the brown or standard middlings at an actual discount under bran, while a premium of as much as \$15 a ton has prevailed on the cheaper grade of shorts in the last few months. Minneapolis quotes brown shorts around \$25 to \$26.50, and in Kansas City around \$26 to \$27. The heavier offal is around \$35 to \$36 a ton in the northwest, \$37 to \$39 in Chicago, \$34 to \$35 in St. Louis and \$31 to \$32 in Kansas City.

> M ILLFEEDS are in a rather peculiar position. The stocks in mill hands and in consuming channels are not large, and a moderate demand, which now is lacking, might easily cause a turn in prices. Still, dairymen and other users of the offals apparently have sufficient stocks on hand to meet their current requirements and will probably not lend any strong absorptive power to the market. Speculative operators as a rule are seeking to force prices down to a parity with feeds as a whole, and they will be successful in such a venture so long as the real consuming trade is holding off. The prospects are not bright for a further increase in the demand for flour, therefore production will remain light.

Cottonseed cake and meal are at the lowest level in more than five years, well under half the quotations at the high point of the crop year and hardly a third of the level at this time a year ago. Even at the current extremely enthusiasm for the bull side after a study of the influences surrounding Buyers rather than sellers, or de- the trade. Rangemen and other cattle erning force in the bran and shorts the occasional spasmodic improvement increasing the surplus of corn to be market. There is no doubt but that in demand failing to hold for more production has not in recent years than a very brief period. Manufacturbeen of such light volume as now be- ers of commercial fertilizer and mixed ing experienced, due, of course, to the feed interests also are buying on a

el prevailing today. But hogs at that ment downward of other commodities the wheat feeds on as small a scale three per cent protein prime cake and

Purdue's Team Wins at 1920 International



Bottom Row, Left to Right.—(Regular Team): -M. P. Mitchell, H. R. Hofford, P. J. Brown, R. G. Fordice, G. L. Fisher. Top Row, Left to Right. --Prof. W. W. Smith, Coach J. M. Lilly, and Alternates, G. G. Buford and A. K. Mackey.

available for markets, will have a ten-

distant interior middle west points, values or even higher prices is the fact mand for the breadstuffs product, various mixed feeds forcing a curtailand the prices on markets down to a that the coarse grain is far under a Small output of the offal has been the ment in the purchases. Exporters, who cent a pound, the trade is naturally parity with other feeds and too low only factor which permitted prices to before the war provided the principal reluctant to express bearish convic- compared with wheat. Bran and shorts be so well sustained during a period outlet for cottonseed cake and meal, tions on corn. Of course, the coarse are selling above corn, an abnormal of depression in other feeds. Not a are today buying on an insignificant grain already is at a surprisingly low situation, and even some grades of few producers of hogs in Michigan and scale, with the few inquiries showing level, but it is not so cheap that still alfalfa and tame hay are considerably surrounding states have paid within bids far below the market. further declines cannot be recorded, above the leading feed grain. Wheat the past month around \$40 a ton for On the Memphis market cottonseed Some of the observers of trade condi- is more than twice as high as corn, gray shorts and at the same time were cake and meal of thirty-six per cent tions who still manifest a bearish atti- though normally the differential is unable to dispose of their new crop protein content is selling around \$29 tude toward the corn market recall about a third to a half greater. Before corn at more than \$20 a ton. This is to \$30 a ton. At Little Rock where that during previous periods of busi- the price pendulum halts, such a dis- a ridiculous disparity, and explains both prices and freight rates are on ness depression and industrial read- parity must disappear, but it can be why consumers have been so reluctant a better basis for the Michigan and justment corn sold well below the lev- accomplished by a further readjust to buy both bran and shorts, feeding surrounding trade, offerings of forty-

meal can be had at \$30 to \$31 a ton. tein feeds, and without an outlet to other feedstuffs for oil cake and meal has there been such a wide disparity The Texas market ranges down to \$27 consumers, the speculative trade is in so far as possible. A \$40 market for between the price of hay and corn, a ton, and \$29 a ton in Oklahoma, a a tight position, which explains in a linseed feed at Minneapolis is more the forage being actually higher than full decline of about \$10 a ton the past measure the weak tone in prices. month. Quotations are below \$40 a

than a possibility.

ton in the important feeding sections LINSEED feed is also weak, nor has HAY prices have yet to strike a bot- to \$27 a ton and about \$17 to \$20 for in the middle west. Usually at this L it reached bottom. Restricted proseason of the year crushers accumu- duction in the northwest, and the ab- plus of hay, particularly alfalfa, in quotes prairie hay at an extreme range late stocks of cottonseed feed for next sence of pressure on markets by mills the country, which has been further of \$7.00 to \$15 a ton, while in Chicago spring and summer requirements, dur- have served to sustain prices more or increased by the excellent late fall timothy is bringing up to \$32 and the ing which season mills seldom are op- less, but this has merely prolonged weather and use of wheat fields for cheaper grades down to \$23. Alfalfa erated owing to cleanup of seed hold- the period of declining prices. Prices pasturing stock. The south would now in Chicago is selling around \$25 to \$34 ings. This year, however, mills almost are holding around \$47 to \$48 a ton at be a willing buyer of alfalfa and tame a ton. Before the close of the crop generally over the south are making Minneapolis and on about the same hay, at least so far as her own stocks year, and possibly before the feeder no effort to accumulate cake and meal, basis at Buffalo, showing a loss of are concerned, but the cotton planter enters the spring season it is possible but are forcing their production on the about \$6.00 a ton in a month. Linseed is discouraged over the radical depres- and even probable that some grades of market as rapidly as possible. While feed still is out of line with cottonseed sion in his staple and is unwilling to hay will be selling at \$5.00 to \$8.00 a due in a measure to lack of credit cake and meal, a strong competitive pay virtually the same price for hay as ton lower than the current quotations. facilities, the action of crushers re- feed, and the price of oil meal is far, a year ago. Even the central states Producers who have surplus hay will flects bearishness on the part of the far out of line with corn and oats. The feeder is buying alfalfa and other hay profit by selling as quickly as possible. trade. There is an extensive long in- product should not now be accumulat- sparingly, using more corn and fod- The prospective buyer, on the other terest in the market for the high pro- ed; in fact, it seems wise to substitute der, owing to the saving. Never before hand, will profit by holding off.

the feed grain. On the largest market,

Kansas City, fancy alfalfa is selling up



Proceedings of Meeting at Indianapolis-(Continued from last week)

organization following the Civil War, four cents a head. basis of opportunity equal to other vo- when the harvest is over, regardless findings showed that the earnings of be to choose the wise, broad road and cations. In that previous period there of whether the grower can market his the railroads in the three-year period not try to shoulder every petty burden started those great American agricultural projects, the Grange and the Farmers' Union, which have had such a far-reaching influence. These agencies prepared the way for this new conception of one great national farmers' organization to be the medium for joint action of diversified agricultural groups.

President Howard's Address.

The ovation that greeted President J. R. Howard, of Iowa, the head of the organization, as he opened the meeting and again as he delivered his annual address, showed the high esteem in which his service in directing the development of this movement is held throughout the whole American agricultural world. Mr. Howard said that one of the important achievements of the organization has been winning the confidence of other interests. Another the reduction of the railroads' twenty-billion-dollar valuation of their property, on which they asked a guaran- crops or not. Then the banks take the ending 1919 were greater than in any not operate it, but they can bring inteed dividend of six per cent, so that money that they have called in from previous three-year period in the his- fluences to help control it. The busiit saved farmers over \$100,000,000 in the farmers and loan it out to city in- tory of the country. It was these find- ness of producing must not suffer in rate increases. Another achievement terests which are thus enabled to hold ings which secured reduction of the order to share in distribution. was more favorable rulings, regarding the farm crops they bought on a glut- railroads' own estimate of their capifarmers' income tax returns, and Unit- ted market, for high prices at the ex- talized value. ed States treasury approval of the use pense of both the producer and the of a farmers' account which enables consumer. The remedy for this is some

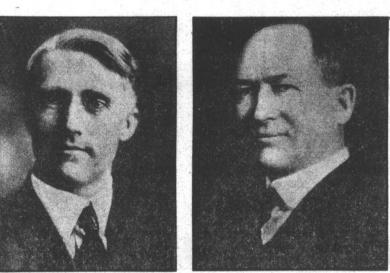
tax returns. Mr. Howard suggested and sell them in an orderly manner. pletion of a waterway for ocean ves- to study economics. They knew the that the American Farm Bureau Federation should take steps to provide a of the federal reserve banking system by way of the St. Lawrence River is products and wonder if it is not time cooperative or marketing secretary as an aid in this respect. He says it of tremendous importance to both pro- to speak for themselves, not through with an able corps of assistants to give is fine for bankers and commercial in ducers and consumers. It will get in the medium of a political party, but especial attention to working out mar- terests but not a farmers' aid. Less land products to our eastern seaboard through the political media already keting problems. He said that the ex- than one-tenth of one per cent of the far cheaper than by rail, will afford a provided. The literary test for immiecutive committee is ready to start discounts through the federal reserve direct route for middle west products grants was branded as a failure inasthis work at once. He reported that system are agreultural paper, though to world markets, and will relieve rail- much as the most adroit criminals are the farm bureau executive committee the Chicago branch did run about sev- road congestion. He said that the un- naturally the best equipped mentally. recommends having an agency in ev- en per cent, most of which was, how- dertaking would cost approximately He urged thorough methods of Amerery foreign agricultural nation for ob- ever, farmers' pay for implements re- \$300,000,000, which should be borne icanization. There is no surer way of taining reliable data in regard to world discounted by manufacturers. The jointly by the United States and Can-making an American of a foreigner supply of crops and agricultural con- federal reserve bank law must be ada. He argued that this waterway than through his children. He urged ditions which would affect American amended to give farmers equal con can be made a revenue producer by liberal support of the public schools, agriculture. A director of organiza- sideration with other business. Other- development of hydro-electric projects. urged all farmers' organizations to get tion is a new feature proposed for the wise farmers must organize a banking farm bureau.

Speaking of the losses of American

HE second annual meeting of the en billions, while the losses of wool so much an agricultural policy as we ricultural counties cannot afford to pay cember 6-8, was numerically and dy- eighths wool sold in Chicago for twelve the policy of every other industry." namically an epoch maker. This gath- cents a pound, where last year it ering of more than one thousand rep- brought sixty-three to sixty-five cents Clifford Thorne, the expert employ- fifty. He urged the American Farm resentative farmers, with perhaps one a pound. And two thousand fat sheep, ed by the American Farm Bureau Fed- Bureau Federation to assist with its hundred farm women, from all parts that cost \$10 a head to bring through eration to investigate the transporta- counsel and advised definite suggesof the United States recalled that oth- the winter, netted their owners at their tion problem, presented an elaborate tions in letters to congressmen. er period of constructive agricultural sale in Chicago last week only thirty- report and recounted the experience

American Farm Bureau Federa- and cotton growers also mount into need a national policy that will ena- their share of through roads which the tion, held at Indianapolis, De- the billions each. Last week three- ble agriculture to articulate fairly with state and federal government should Railroad Rates.

in securing the reduction of railroad when something big had to be done to Banks loan to farmers for the pro- valuation mentioned by President How nois, declared that at the outset the preserve American agriculture on a duction season and require payment ard. Mr. Thorne reported that the one big job of the organization would



President Howard.

institution of their own.

Gray Silver.

Deep Waterways.

Highways.

Mr. Howard said that the agricul- Highway Council, stated that three membership should support the offifarmers by the slump in prices, he tural policy of our country has been groups were fighting, each for its fav- cers in their work, said that corn growers had lost over to protect industry and educate the orite plan of road improvement. He four billion dollars in the last year, farmer. "Let's reverse it," he added said we are wearing roads out faster grain farmers in all had lost over sev- tersely. "I do not believe that we need than we are building them. Many ag-

pay. No state should receive federal aid until it has met the amount fifty-

Plan of Action.

Dean Davenport, University of Illi-

that everybdy would try to load onto it. A big business deserves a broad view. He declared that all of the farmers' problems are not going to be worked out by the dirt farmer. The problems of agriculture touch all lines of enterprise and must be worked out in conference with them, but the interest of the dirt farmer must always be kept plainly in view. What we need is steadiness in prices rather than high prices. Agriculture can stand heavy losses provided they are properly distributed. Those who have their farms paid for can stand such losses as in recent months, but those who are still in debt are compelled to suffer. The American Farm Bureau Federation has been wise in paying attention to selling and not so much to buying; to reaching the world's markets rather than reaching the consumer. The business of distribution is a distinct line of effort and farmers can-

#### Looking Ahead.

Milo D. Campbell, of Michigan, commented on world conditions and the Governor W. L. Harding, of Iowa, heavy immigration from other lands farmers readily too determine the nec- method of financing farmers so that who has been actively interested in that is now imminent. He declared essary data for making their income they can hold their crops themselves this proposition, asserted that the com- that American farmers are beginning Mr. Howard pointed out the failure sels from the Great Lakes to the ocean greatly increased demand for their together and cooperate in the interest Henry Shirley, secretary of Federal of agriculture and that especially the

County Agents. Mr. M. L. Mosher, president of the (Continued on page 756).

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BALL POINT HAMMER

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COW BOY SURE HEATER

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status of the dairy farmer has the market.

changed. He has managed to ride the stormy sea with smaller losses than THE present time affords a fine op-feeders of beef cattle, sheep and hogs. The portupity for dairy farmers to cult the toboggan.

slumping prices.

ful farmer can so plan his crop grow- mand shorter hours and more pay. ing and live stock feeding methods of production.

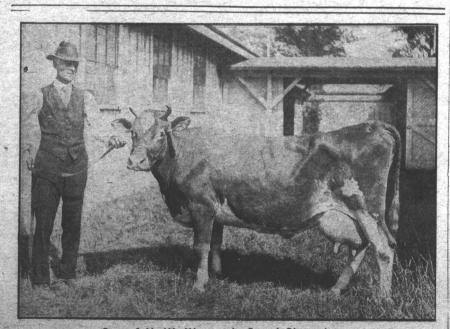
It is not the purpose of the writer on selling the products of the soil and pastures would enable the dairy farmer

C INCE the recent decline in prices feedyards at certain seasons of the of farm products the financial year when other interests are bearing

portunity for dairy farmers to cull Because the dairy cow can return an out some of their unprofitable cows immediate income, the dairy farmer and raise a few good heifer calves to has cashed in on his high-priced grain replace the min the milking herds. feeds and a portion of the labor charg- With condensaries closed, and the dees required to care for and produce mand for whole milk lighter than at the supply of food crops for his herd any time within the past three or four before prices for dairy products hit years, one can dispose of every inferior cow to good advantage and use The fact that the modern dairy cow sufficient whole milk and skim-milk to produces a steady income and gives raise good calves at a lower cost than quicker returns for her supply of feed has been possible at any time since than other kinds of live stock is caus- the beginning of the war. And by the ing many farmers to look upon her time these heifers come into producfrom an altogether new angle, more tion the demand for dairy products will especially those who have fed other be sufficient to take care of the supply kinds of animals with a view of selling at profitable prices. By replacing all them during the present period of of the low producers in the herd with young cows from better producing Likewise the farmers who depend dams and pure-bred dairy sires an inupon the sale of grain, hay and spe- crease of one thousand pounds of cial crops for their income are finding milk per cow per year can easily be it difficult to meet the present situa- made from the same quantity of feed. tion without serious losses. On the Such a movement on the part of dairy other hand, the farmer with a herd of farmers in general would lower progood dairy cows and young stock com- duction costs and put the industry on ing on is in a position to conduct his a more substantial business basis. The business along conservative lines for a dairy farmer who keeps a lot of infew months until feed and labor prices ferior cows and depends upon his milk adjust themselves to the new order, producers' organization to hold up and then go ahead as though nothing prices sufficiently for him to realize serious had happened. Farming is a the cost of production plus a profit, business that cannot avoid the assump- has little reason to complain if his tion of financial risks, but the thought- hired men shirk, or if labor unions de-

During the present period of low that a severe slump in prices at any prices many dairy farmers could avoid one season of the year will not result certain losses through feeding more in severe losses for the entire year's legume hay and corn silage, and cutbusiness. Any system of farming adap- ting down on the amount of grain ted to the present economic conditions feeds. Unless the price of milk and should be elastic enough to permit of cream is sufficient to yield immediate certain changes that will enable the returns in the milk check it will rarely owner to avoid these periodical de- pay one to feed more than enough pressions in prices and make it possi- grain feed to carry the cows along in ble to regulate the business so that good, thrifty condition. Grain prices one may go ahead with increased pro- are sure to come down unless milk duction when the markets will take and meat prices advance, and it will care of the surplus. This is a phase of pay the dairy farmer to wait for these dairy farm management that should prices to resume their normal relationbe given careful consideration by all ship before feeding his cows for maxipersons who are anxious to stabilize mum production. He is in a better markets and prevent a small surplus position to cut down on his grain rafrom reducing prices below the cost tions than the feeder of beef cattle, sheep and hogs.

By cutting down the number of cows to defend the interests that are back in the milking herd and growing more of the movement to club down prices heifer calves the labor problem will of farm products, but rather to point automatically solve itself at a time out some of the advantages of dairy when the herd is being developed for farming and a mixed system of crop more profitable milk yields. Along the production over those that depend up- same lines more land in meadows and



One of H. W. Wegman's Grand Champions.



### What the inside of the engine shows

WHEN you take your engine down, in the work shop, you realize more than ever the troubles which leaky piston rings cause. You see oil, which has leaked through from the crank case, burned into carbon, and deposited on the spark plugs, the valve seats, the piston heads - everywhere.

This carbon cuts down the entire efficiency of the engine - it costs you valuable power.

Putting in poor piston rings means doing the job all over again-perhaps in the harvest season, when every day, every hour counts, and you want the very best performance from every bit of your machinery.

Avoid these troubles. Put in the best and be done with it. Be sure you get American Hammered Piston Rings. They are one-piece, easy to install, and leakless-permanently. Your garage man has them or can get them for you quickly.



Piston Rings

DON'T WASTE FEED

SAVE IT this winter by heating the water for your stock with Coal, Wood or Cobs in a

AMERICAN HAMMERED PISTON RING CO. Baltimore, Maryland

to carry his young stock at reduced prices for dairy products but few farm- game as all other business men have ciently to minimize some of the losses and alfalfa seed is cheaper than at any come. to its former state of productivity.

ers is that of producing one or more people of Europe. Everybody told him chances on the market. mented by adding a flock of good sheep to a minimum?

there is absolutely no excuse for neg- he has as much cause for complaint in to the limit of production every month money crops, so far as being forced to lecting to seed these soil improving the recent slump in prices as the live in the year and take chances on the market his products at certain seasons crops on fields where their beneficial stock feeder or grain grower. He was market. He may not be able to hit the is concerned can never accomplish effects are needed to restore the land encouraged to keep more cows and in- nail on the head every time, but he much toward improving marketing concrease production at a time when the will come much closer than he ever ditions in general until he realizes the NOTHER question worthy of the use dairy substitutes and conserve ford to produce up to his limit every ing a national organization. This will

special cash crops that may be grown there would be a tremendous demand This over-stimulation of the dairy these things for them and then conwith the several crops grown in the for his products from abroad; that business has been a bad thing for the ducting their business according to the rotation to furnish food for the cows, there was no danger of declining pric-dairy farmer. In the long run it will results of such studies and investiga-In many instances the growing of these es so long as the people of Europe in many instances the growing of these es so long as the people of Europe special crops will aid in cutting down were starving. Having responded to The manufactures of chief modules they will find it possible to regulate labor charges against the dairy herd the appeal he now finds himself withand add substantially to the net in- out a sufficient demand for the prod- can close his plant and hold up the demand. This is the policy which come from the farm. In other cases ucts he has produced. How can he prices for his products. In the mean- eventually must be followed by prothe profits from the farm may be aug- plan his business so as to reduce losses time the producer is forced to compete ducers of all agricultural products if

or poultry without materially increas- It is the writer's judgment that the nately he cannot stop production en- place among our leading industries.

costs and give some of the fields an ers can show sufficient net income learned to play it, or he will get no due to over-production. opportunity to recover from the heavy from the dairy herd to meet operating relief. He must reduce his production cropping of the past few years. Clover costs and leave a satisfactory net in- for the immediate future, study condi- in a much stronger strategic position tions for himself and plan his business than the feeder of beef cattle, sheep time within the past few years and Naturally the dairy farmer feels that so that he need not feed his cows up and hogs, or the grower of grain and propagandists were urging people to has in the past. He surely cannot af- necessity of getting together and form-A consideration of many dairy farm- food for the allied armies and starving year on high-priced feeds and take his mean putting up money and employ-

with a still greater surplus. Unfortu- farming is to survive and maintain its ing operating costs. At the present dairy farmer must learn to play the tirely, but he can cut it down suffi-

DEC. 18, 1920.

The individual dairy farmer, while ing competent men to study into

W. M. K.

### American Farm Bureau Federation-(Continued from page 754)

emphasized the importance of the ing up the federal farm loan system is and market situations, the combination legislation prohibiting practice of County Farm Bureau keeping its mem- almost a crime. (A voice suggested of which is forcing many farmers into short selling in agricultural products. bership in line with the big movements to leave out the "almost)." He declar- bankruptcy. The resolutions commitof the state and national federations. ed most bankers to be progressive and tee indicated that the resolutions were to bring under federal inspection, sup-He pointed out the danger of slighting constructive but wished farmers to be in line with the policy of the federa- ervision and control of all inter-state the educational work of the farm bu- not dependent on anyone for credit. tion to secure economic justice for the agencies which prepare for consumpreau to promote commercial work, the Even with the impending court decis- farmers and to promote the interests tion meat and grain products. overhead cost of which is often over- ion the farm loan bonds have suffered of the farm bureau members. looked. However, he declared that the less than any other class of securifarm bureau could develop commercial ties. If warehouse certificates will sell follow: agencies but when they were on a suc- readily they will furnish ample basis cessful footing they should be turned for short-time credit. No system was which is a potent factor in our nation- vested. over to a separate business organiza- suggested for live stock financing. tion. He urged the value of pursuing definite lines of work of local importance and urged increased facilities for Trust Company, New York, spoke on sion of women to membership and they of stock yards until the committee of vocational education without over- credits for export. He declared that are invited into full participation in fifteen has an opportunity to examine crowding the state universities.

#### Washington Office.

in charge of the Washington office of foreign credit hangs around the stabil- Lakes-to-the-Sea the federation, recounted achievements ization of exchange. If there is need route. through that agency. Among them are for neighborhood credit the banks discouraging the Nolan land tax bill; should furnish it. If further credits the laboring man and we will do every- to Department of Agriculture for ensecuring cars for moving crops and are needed for foreign trade the fed- thing in our power to aid him to se- larging service of the Bureau of Crop otherwise helping to get transportation eral reserve system should furnish it. cure just wages and fair working con-Estimates. out of its tangle; developing favor for England has an extensive system of ditions for efficient services rendered. the collective bargaining, truth-in-fab- trade acceptances which has been the We are, however, concerned in assur- ment of law compelling clothing and rics, packer control and other bills mainstay of her foreign finance. It is ing orderly and lawful protection to fabrics containing shoddy or other subbearing upon agricultural welfare. being used to a reasonable extent in every citizen and we are unalterably stitutes for virgin wool to be plainly When the railroads were about to bor- this country. Whatever we do to in- opposed to organized strikes and sym- marked as such. row of New York bankers operation crease foreign trade nothing must be pathetic lock-outs which interfere with money at nine per cent, the federation done to increase exchange margins, the orderly conduct of business. interceded and secured the money at Under the plans of the Edge bank act seven per cent, thus saving the Amer- debentures may be sold for ten times tions to cooperate with us to the full- ure of protection which may be necesican public which would have had to the capital, which is one hundred mil- est extent in our efforts to promote sary to equalize the difference between pay the extra per cent, because the lion dollars. Thus at least one billion and safeguard farm interests. railroads were to get their six per dollars will be afforded to assist in cent dividend plus cost, and were not extending foreign trade. The plan is of the home demonstration and county competing nations, where land is cheap concerned about the rate of interest to move the crops of all sections of agricultural agents. on operating money.

#### **Rural Credits.**

devoted to it. He made a special plea directors will be farmers. for giving farm wives and daughters of life. The American farmer needs to sixty-five delegates. know more of how to sell his products tion 13, however, makes special recog. district are: Howard Leonard, of Illi- marketing. nition of the needs of agriculture in nois; John Brown. of Indiana, and Endorse work of the Farmers' Mar- Bureau Federation legislative bureau that it offers paper of ninety days' ma. Charles H. Gray, of Missouri.

National Association of County Agents, months. In the present emergency ty- especially in reference to the credit Urge upon congress enactment of

Credits for Export Trade.

respect and support only so long as American agriculture. Hon. Gray Silver, of West Virginia, they deserved. The whole story of

the country through this channel.

Congressman A. F. Lever, of South trade is in products of agriculture. In questions. Carolina, spoke on rural credits. He most foreign countries credit is sadly stated that for a business represent. impaired. The debentures of the pro- any kind of daylight saving law. ing twenty-five billion dollars the bus- posed system will be offered in small Request President-elect Harding to which seems to have been instituted

The credentials committee reported dent-elect Harding. an opportunity to get out and change thirty-four member states and thirtytheir views and get some real joy out two represented at this meeting by

#### Many Resolutions Passed.

ities have now been held up for eight and wishes of the farmers today and cooperative commission firms.

al life will be materially extended and reflect itself over rural America in a Federal Trade Commission what no ac-Willis H. Booth, of the Guarantee more significant manner by the admis- tion be taken on any plan for disposal the banking interests would command the task of advancing the cause of all such propositions.

Deep

We reiterate our sympathy is with

About fifty-five per cent of our export point committees to study taxation States.

Reiterate unalterable opposition to

iness of agriculture had received too denominations and will make good in: appoint as secretary of agriculture a by our Federal Reserve Board and our little brain as compared with the brawn vestments. One-third of the board of man in full sympathy with agricultural treasury department, and look upon it policy advocated publicly by Presi- as dangerous to the best interests of

#### Marketing Matters.

the American Farm Bureau Federa- practiced has caused widespread dis-J. R. Howard was re-elected presi- tion in establishing a bureau of re- aster. rather than how to produce more. We dent of the American Farm Bureau search for the purpose of collecting Request cooperation of all banking must have orderly marketing. The lack Federation. For vice-president, O. E. and interpreting facts and figures deal- and commercial interests in our effort of a piece of credit machinery is the Bradefute was elected. He is a suc- ing with the production of farm crops to get immediate relief from the presgreat obstacle to such a procedure, cessful farmer of Ohio, who is well- and live stock, and for the fullest in- ent economic crisis by extenson and The federal reserve act has been a known as a specialist in Angus cattle quiry into conditions which influence renewal of farmers' obligations in orgreat stabilizer but its first concern is breeding. The members of the execu- the law of supply and demand, for in- der that there may be orderly marketto aid industry and commerce. Sec. tive committee from the middle west formation and guidance of members in ing of this year's crops.

keting Committee of Seventeen and consider the important subject of rural approve the demand it has made that personal credits. turity. The federal farm load act ex-tends as much as forty years' time on Thirty resolutions passed by the the grain exchanges be opened to co-Approve provisions of the Federal farm paper. Its constitutionality has sixty-four voting delegates at the Indi- operative commission companies; de- Farm Loan Act and demand amendbeen contested, however, and its activ- anapolis convention indicate the needs mand a similar privilege for live stock ment increasing loan limit to \$25,000.

Request congress enact legislation

Declare that the farmer is entitled The resolutions, in abbreviated form, to compensation for his services equal to cost of efficient production and a The influence of this organization reasonable return upon his capital in-

Request Department of Justice and

Request no further delay in national We favor the construction of a Great legislation assuring farmers full, free Waterway and unrestricted right to bargain collectively.

Request congress for appropriations

Demand of congress prompt enact-

Request of congress the enactment of a tariff law at once which will give We invite all other farm organiza- to the farmers of America that measthe cost of production of farm prod-We highly commend the good work ucts in this country and the cost in and living conditions far below the Recommend State Farm Bureaus ap standards which prevail in the United

#### About Credit Situation.

We are opposed to the policy of drastic and precipitated deflation, the entire nation during the present crisis. Reasonable contraction was There should be no further delay by necessary but drastic deflation as now

Recommend that the American Farm

(Continued on page 779).

GIVING REAL SERVICE.

Not long ago a group of farmers came to the office of the 'traffic department in Grand Rapids one evening and said they had sold apples under contract to be shipped on a certain day. If they failed they would forfeit their sale. The local railroad had refused to take the shipment, giving the reason that it had no cars. The traffic commissioner telephoned to railroads here and there and finally persuaded one of them to get one car placed. The next afternoon the car was there and the men filled their contract.

A different kind of service was given to a community of live stock men who were forced to ship their live stock about fifty miles to a feeding point and then send it with other shipments, incurring the extra cost of unloading, loading and feeding. The traffic department secured an extension of the live stock run so they could ship direct to the eastern market from their own town without having to unload at a short distance away. The law is very explicit in regard to feeding stock in transit every thirty-six hours. A study of this particular situation showed that the fifty miles could be included in the thirty-sixhour run.

Celery growers in Washtenaw county faced a big loss when they needed thirty refrigerator cars and the railroad was unable to furnish them with any. When the traffic department was appealed to it hunted for available cars of many roads and finally got some extra equipment from the New York Central. The thirty cars came a few days late but in time to save the crop for the celery growers of that locality.

An unusual instance of traffic department service is found in the case of a local cooperative association which wanted a sidetrack. They had their building plans all made and had asked the railroad to put in a track, which under the law, a railroad is required to do if it can be proved that enough business will be done to make the installation of the track profitable. The railroad had refused to put in the track. The cooperative association had then appealed to the United States officials at Washington who had turned the matter over to a regional committee with headquarters in New York. This committee had put the proposition up to the railroad in question which a second time turned it down, thus completing the whole ring of officials with nothing accomplished. It was at this time that the traffic department was asked to help. Several attempts failed but finally the carrier agreed to put in the track. According to its understanding of the regulations of that railroad, the cooperative association asked for a refund of two dollars a car on each car handled until the sidetrack was paid for.. Again the railroad refused to act. It was not until the traffic department showed the officials a letter signed by the freight traffic manager of that railroad directed to the divisional freight agent calling attention to the two dollar refund that the association was able to get its money.

In buying breeding stock it is best to remember that cockerels will bring the best results with hens, while cockbirds can be mated with pullets. But it is the hens that lay the eggs and the best results will be from the hencockerel mating. Often buyers of breeding stock purchase pullets when they would do better next spring if they had purchased yearling hens which would be able to produce more plump chicks than the pullets.

# The Sixth Annual NATIONAL TRACTOR SHOW And Educational Exposition

EVERY

man whose business is farming, as well as every man whose business depends upon the success and progress of farming, should come to this show!

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### COLUMBUS OHIO Feb. 7-8-9-10-11 and 12



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Eight huge buildings will be packed with exhibits showing all models of power-farming machinery. There will be lectures and entertainments, open meetings and discussions for all. The biggest men in agriculture and business and one hundred thousand practical farmers will be here. Write Today for Complete Program and Special Free Tickets

Decide now to come. Write to National Tractor Show Committee, Columbus, Ohio, for our program booklet and free tickets for yourself and family. Ample accomodations at reasonable prices have been arranged. All who attend will profit.

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	Gentlemen:
	Please send me your booklet regarding The Sixth Annual National Tractor Sh

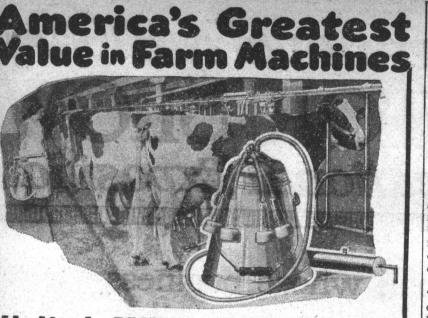
Please send me your booklet regarding The Sixth Annual National Tractor Show. Also inclose free tickets for myself and \_\_\_\_\_\_ others of my family.

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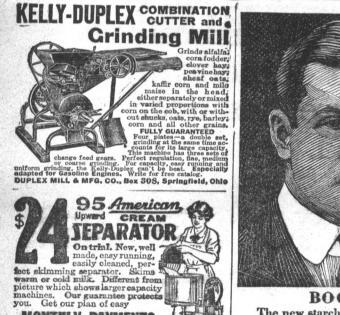




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DEWEI COLLARS Save Your Tie, Time and Temper Hall Hartwell Co., Makers, Troy, N. Y.



### **Inventory Shows Savings** By H. M. Eliot, Farm Management Demonstrator, M. A. C.

W E haven't very much to show for yet begun and the amount of feed on per table. "Sometimes I think it would ing feed on hand. Indeed, from the be a good thing to have a sale and go standpoint of figuring feed, May 1 or to town and work for those attractive even June 1, would be better still. city wages."

the more optimistic member of the taking an inventory at any other time family, "and our house rent, and be- than on the last day of the calendar sides we have made a payment on the year. mortgage. And then there is that binder note you paid off. Our farm is they are also highly valuable. An innearer paid for, we own our farm ma- ventory when taken will tell how much chinery and have more cows than we one has saved during the year. Indid a year ago."

"but I had to hire money the other compare the amount one owns with day to go to the farm bureau meeting. what one owned on some former date. If we have made any money it is hid- In almost every case this will show an den from sight."

place Mr. Gun decided to take an in- ed is not always apparent, as shown ventory each year so as to know how in the summary above. It may have much he is saving. The following is gone into increased live stock or into a summary of two inventories taken a the payment of a mortgage or into year apart and show how earnings new equipment, and an inventory is may be covered up in various parts of the best means of showing such hidthe farm business.

In this inventory summary the Inventories are also useful in makslightly, and the other items show an returns on live stock. But both of increase. The dairy herd has increas- these points will be discussed in later ed considerably, machinery and tools articles. have been added to during the year,

our year's work." said John Gun hand is much lower than on December addressing his wife at the sup- 31. This means less trouble in estimat-However, aside from the easiness of "We have had our living," answered figuring feed there is no reason for

While inventories are easy to take deed, it is often encouraging to take "That is all true," said the farmer, an inventory of what one has and thus increase in the amount of property After this conversation had taken owned. Very often what one has savden gains.

horses, sheep and feed have decreased ing income tax returns and in figuring

Undoubtedly inventories are the

Inventory Summary.

Items.	Value, Dec. 31, 1918.	Value, Dec. 31, 1919.	Increased Inventory.	Decreased Inventory.
Horses Dairy cattle Hogs Sheep Ponltry Machinery and tools Feed and supplies Bills receivable Real estate and buildings. Bank balance Bills payable	\$ 400 827 125 321 100 521 960 125 10,000 378 1,500	\$ 350 1,260 156 309 110 745 897 200 10,000 412 550	\$ 433 31  224  75  34 950	\$ 50 12 63
Totals Increase in inventory value			\$7,757	\$ 125 1,632

and the outstanding bills against the most popular form of farm records. farm have been decreased \$950. The Everywhere over the state farmers are farmer's inventory from various found who regularly take an annual sources shows a net increase during inventory, and many farmers are found the twelve months of \$1,632. By thus who have followed the practice for carefully taking an inventory a farmer years. may know what he has saved during It may also be emphasized that one the year and without an inventory it may take an inventory whether he is very difficult for him to tell what keeps any other records or not. The progress he has made.

it will probably require a day the first may wish to keep. Write the Farm time an inventory is taken, but the Management Division of the Extension second inventory can be taken in less Service, East Lansing, for the price of time than the first, as nearly every- these books. thing will be already listed and will need only to be checked over.

"HE date of taking an inventory is J. A. Doelle, of the Upper Peninsula some consideration. There are rea- ply of ing it on April 1, or even later. De crop for this section of the state. Mr. cember 31 is the last day of the calen- Doelle is much encouraged by a recent dar year and an inventory taken at expert opinion that lupine does best that time fits in well with the closing on an acid soil, which is characteristic of the year's business, and furthermore of some of our sandy areas. the United States Department of Internal Revenue strongly prefers to have the farmer's business year end on December 31 when an income tax payment is involved.

taking an inventory on April 1 is that from Manistique. The transaction was at that date the spring's work has not effected through the Cadillac Exchange.

Extension Service of the Agricultural An inventory may be defined as a College, East Lansing, Michigan, pubcomplete list of the property a person lishes an account book which it sells owns, together with the value of each to farmers at cost. These account item on the list. Taking an inventory books contain convenient blanks for is not difficult. On the average farm taking an inventory as well as blanks it is about a day's work. At any rate for the other kinds of records a farmer

#### WILL GROW LUPINES.

THE date of taking an inventory is of a bound for planting next lupine seed for planting next sons for taking an inventory on De- season on some of our sandy lands as cember 31 and other reasons for tak- a test of the suitability of this forage

#### CLOVERLAND POTATOES MOVE.

A shipment of four carloads of potatoes from Cook's on the Soo Line to The reason, on the other hand, for Chicago and Cleveland, is reported DEC. 18, 1920.

# DAIRY FEED-STOCK FEED

PRODUCTS DAIRY FEED

ADISH,

### Winter Profits From Dairy Cows

Winter Profits from Dairy Cows depend upon the economy of winter feeding. Economical feeding in this case does not mean feeding a small amount of feed, nor does it mean feeding the cheapest feed obtainable. It means that combination of feeds that will produce the most profitable results at the least cost.



True Value Dairy Feed is a combination of those nutrients which the dairy cow can most **profitably** transform into bodily maintenance and milk. The cow uses the energy received from the feed **first** for bodily needs and **then** produces milk from the balance. Some nutrients can be used most profitably for body maintenance and others for milk production. Hence, it is absolutely necessary to have the **exact balance** of nutrients to make the most profit.

In True Value Dairy Feed we have combined only those nutrients which the Dairy Cow can convert into vital energy and milk at a profit. The profitable cow will not fatten on True Value Dairy feed but she will maintain her highest standard of bodily vigor—produce her maximum amount of milk—and return the greatest profit on the money invested.

**True Value Stock Feed Like True Value Dairy Feed** is a profit making feed. It is designed first of all for young stock. That is, it will furnish energy for plenty of rapid growth and development and still not fatten. Because the nutrients in True Value Stock Feed are directly available for use, the development of young stock is made at a wonderful profit.

True Value Stock Feed forms the base for a very profitable dairy ration when used in combination with silage, ground corn or oats and oilmeal or cotton seed meal. Ask your dealer for True Value Feeds. If he cannot supply you write us.

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If you are interested in real bread of the finest kind try our Ladish Quality Flour.

100 LBS.

DAIRY

### POSTUM CEREAL used in place of coffee has many advantages, soon recognized. Postum is better for health, costs less than coffee, yet has a flavor

Postum Cereal should be boiled a full fifteen minutes. Another form Instant Postum is made instantly in the cup, no boiling required.

very similar to coffee.

### Grocers sell both kinds

"There's a Reason"



### News from Cloverland

#### By L. A. Chase

OW many people live in the up- this work, where such is desired, and tion put out by the United States Cen- board of supervisors at its annual sus Bureau during the past few meeting, appointed an agricultural months, it has been possible to com- commission of three to cooperate with pile the aggregate for that portion of the county agricultural agent and pro-Michigan lying north of the Straits of mote the agricultural policies of the Mackinac, and the figure stands at county. County Agent Long has gone 336,383, compared with 325,638 for 1910. to Muskegon county in a similar capa-In Gogebic county a notable increase city. The agricultural commission is of some ten thousand population has now in quest of a new agent and is in occurred-a county in which mining communication with the Michigan Agand agricultural progress has taken ricultural College to this end. It is place in the last decade; while Hough- not easy to obtain such an agent who ton county, while it remains the most is acquainted with upper peninsula populous county in the northern penin- problems and sympathetic, towards sula, has lost more than 16,000 inhab- them. Meanwhile the commission is itants in the ten-year census period, keeping the office open and has dividowing to serious depression in the cop- ed its work into three departments: per industry following the close of the of land clearing and soil survey, of war. Marquette county has second community work, and of farm producplace with 45,786-a loss of about one tion. The Iron County Agricultural thousand inhabitants. "As to cities and Commission means, among other villages, Ironwood, with 15,739 inhab- things, to get after the township offiitants, tops the list in spite of Esca- cers through the agricultural agent, naba's claim to be the metropolis of with a view to the enforcement of the Cloverland, as proclaimed by an elec- laws relative to the destruction of noxtric sign near the Chicago & North- ious weeds. The production of potawestern Railway station in that city. toes free from disease is also to be Escanaba is dissatisfied with its show- promoted by this commission. ing of 13,103. Marguette with 12,718, and Sault Ste. Marie with 12,096 are ganization of its County Farm Bureau. close rivals.

The United States Weather Bureau has established a new upper peninsula volunteer station-that at Sack Bay, Delta county. Miss Adella Eliot, one of three sisters engaged in operating a successful farm at Sack Bay, has been appointed local volunteer weather observer. This location is an old, welldeveloped farming community twenty or thirty miles off the railroad, with its outlet to market by way of the lake to Escanaba, or overland to the Soo Line railroad. It is in a sense one of the most isolated agricultural communities in Michigan, but it presents a pleasing, well-kept appearance, and the underlyng limestone affords excellent soil conditions where it doesn't come too close to the surface. The late fall means a good deal to these farmer folks of the Garden peninsula, for it delays the close of navigation by which most of their marketing is done.

has received inquiries from southern A resolution was adopted for presen-Michigan County Farm Bureaus re- tation to the state executive commitgarding fenceposts. Plans are formulating for satisfying these inquiries lows: "That a branch office be estabthrough the County Farm Bureau here. lished in the upper peninsula to assist On the other hand, orders for clover the County Farm Bureaus in a busiand other seed are being placed with ness and educational way." This resotablets, you are not getting genuine the State Farm Bureau through this lution illustrates again how different county's organization. An Ishpeming are the two sections of Michigan, calltownship farmer obtained a carload of ing for a difference of treatment of the hay through the Chippewa County problems confronting the two portions Farm Bureau and estimates a saving of the state and the agencies that are of \$140. Many Marquette county lo- to deal with these problems. Such a cals are placing orders for feed. Sev- branch office of the State Farm Bueral of these locals have become in- rean, it seems to be agreed, should be corporated under the State Act of located at Marquette or Escanaba. The 1903.

> mission, reports the Farm Bureau it is recommended by the conference, News Letter of that county, is to start should have the approval of the county a stump-removing campaign and the bureaus and county agents. It is exwork will begin, it is stated, as soon pected that this proposal will be taken as the new county agent is settled in up at the annual meeting of the State his office. The example of Marinette Farm Bureau to be held in Lansing in county, Wisconsin, is to be followed. February. The proper and necessary Each farmer is to be asked to stump relationship of county agents to farm at least four acres. Land-clearing as- bureau activities was explained at this sociations among the farmers will be Marquette conference, bringing out the formed to promote this work. The ruling of Mr. R. J. Baldwin, director commission is to purchase powder In of extension work of the Michigan Agcarlots and re-sell to the farmers at ricultural College, to the effect that cost, it is stated. A fifty per cent sav- county agents may assist in forming ing is thus to be secured, it is planned organizations of farmers and in giving The work will go forward under expert instruction and advice, but may not direction, if such is desired. The ag- take upon themselves business responricultural commission's plans are am- sibility or act as officials of local orbitious, for they comprise financing ganizations.

Chicago.

per peninsula of Michigan? From in addition a soil survey of the counthe mass of statistics of popula ty's farm lands. The Iron county

Alger county has perfected the or-The objects to be sought by the farm bureau are stated to be "to encourage better and more economical methods of production, secure better results in grading, packing, advertising and marketing farm products; to purchase farm supplies in large quantities in a cooperative way and lease, purchase, erect, own, sell and control real and personal property as needed; to cultivate the cooperative spirit in the community and to perform any other work that will tend to the betterment of the members and the uplift of the community."

Baraga county has similarly completed its organization under the Michigan Act of 1903.

The purpose of the recent farm bureau conference held in Marquette is given as follows: "To acquaint county agents and farm bureau representatives with policies of the bureau and to define relationship between local organizations of the farm bureau and county agents who represent the state The Marquette County Farm Bureau college in agricultural extension work." tee of the State Farm Bureau, as folselection of the person in charge of The Iron County Agricultural Com- the branch bureau and of the location,

#### ENSILAGE AS A FOOD.

One of my neighbors who feeds silage to his cows told me that they gave twice as much milk when fed corn sil-age, but that it would test only half as much. And one of my other neighbors said it did not increase the flow of milk. Which is right? My hogs tear holes in the compart floer as soon as I holes in the cement floor as soon as l feed them corn for a few weeks while fattening. What is the cause and what can I do to prevent it? Muskegon Go. A. C. K.

Corn silage has now been used so many years under so many different circumstances that its value as a food cannot be questioned. It must be understood, however, that the corn plant is not a balanced ration. It does not contain a sufficient amount of protein and should never, under any circumstances, be fed alone but always in combination with other foods. In the first place, it is a succulent food and should have some dry forage with it. Then, as stated above, it is a carbonaceous food lacking very much in protein and some food must be fed in connection with it that will increase the per cent of protein in the ration.

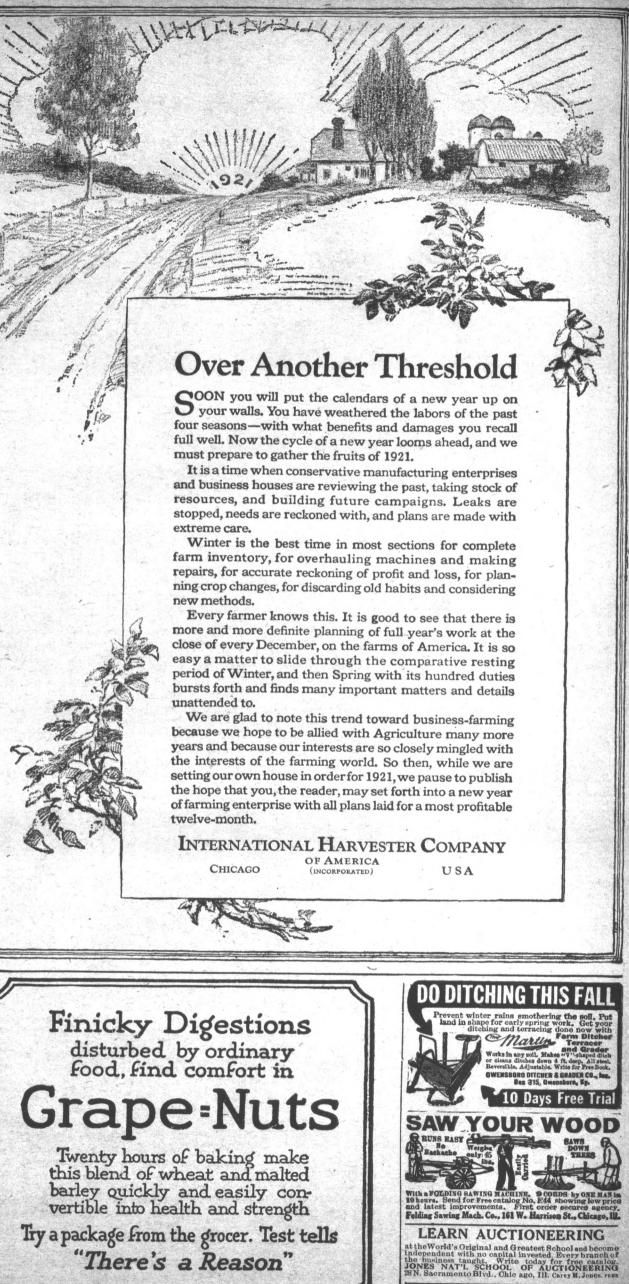
Now, there can be nothing in this idea of ensilage increasing the flow of milk and lowering the per cent of butter-fat. The ration has practically nothing to do with the richness of the milk. You cannot increase or diminish the per cent of fat in milk by changing the ration. The quality of the milk is fixed by breed and individual characteristics. Two cows standing side by side in a stable, fed exactly the same ration, will produce milk varying materially in quality. For instance, a Holstein cow might give only two and a half or three per cent milk, or a Jersey or Guernsey cow standing beside her and fed in the same way, would give five per cent or six per cent milk, so the ration has nothing to do with it.

Another man states that ensilage does not increase the flow of milk. One cannot answer this intelligently without knowing the other foods in the ration. Properly combined with other foods, ensilage does increase the flow of milk.

Ration Lacks Mineral Matter.

It is quite common for hogs, when confined and fed largely on corn, to act in this way. They will actually eat holes through the cement floor. They will eat wood or almost any thing. This is the result of faulty feeding. Corn alone will fatten hogs but if the ration is continued for any considerable length of time hogs will not remain healthy. There is a craving for something else. The ration is not balanced. It lacks sufficient mineral elements and also protein.

If, in connection with corn, you will feed tankage which balances up a corn ration, hogs rarely have this craving appetite. It can be satisfied largely by feeding them wood ashes containing plenty of charcoal, or even soft coal. Even growing pigs that are confined in the winter time where their ration is partially balanced with skimmilk or tankage, ought to have hardwood ashes and charcoal. Charcoal assists in digestion. Even some people have to use charcoal. Often we purchase coal slack and throw it by the hovelfull into the pens and the pigs will eat it all up. In this way you can satisfy the craving of the pig so that he will rarely destroy the pen. A certain amount of salt should always be included in the ration of any animal. Where the portion is fed in the form of a slop salt can be used every time a new portion of slop is mixed. For instance, if you were feeding ground barley and middlings made in the form of a slop, salt should always be added to this. If you are feeding nothing of this kind, then salt and ashes can be mixed together and kept so the pigs can have free access to it.-C. C. L.



"There's a Reason"

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DEC. 18, 1920.



#### DEC. 18, 1920.

THE MICHIGAN FARMER

## WORLD EVENTS IN PICTURES



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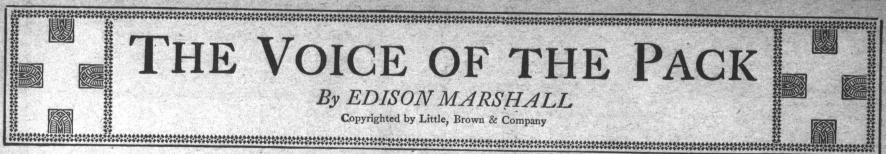
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fonda with Columigh at your fireside Cumbia popular is, irank Crumit, Bes, Ted Lewis' ch exclusive on, Hackett, ; and a world bia dealer and ia Grafonola es you exact mselves pro-Laboratory.

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CHAPTER VI.

with him solely as guide. The deer sea- bed. It puzzled him. He had turned certain conclusion. That conclusion sounds that he was not even observant son had just opened, and it might be to find the younger man in a perfect was that at least a few of the charac- of the peculiar, subdued quality in that Dan would want to procure one posture to shoot, his feet placed in teristics of his grandfather had been Dan's voice. Otherwise, he would have of these creatures.

deer," Dan told him. "You speak of rect; and withal, absolutely motion- not turn out such a weakling, after all. right towards us, like most animals them as being beautiful-"

father would never hunt them either, still in the presence of game is one ed that long generations of frontiers for that." except for meat. But maybe you'll of the hardest. The natural impulse is men ancestors had left this influence change your mind when you see a to start-a nervous reflex that usually upon him. The wild was calling to him; stood straining for a long moment buck. Besides, we might run into a terrifies the game. The principle of wakening instincts long smothered in without speech. lynx or a panther. But not very likely, standing still is, of course, that it cities, but sure and true as ever. It without dogs."

pine needles. They fought their way first leap from its bed, and if the hunt- to him, and the Failings once more they're going to do. It might have got through a thicket of buckbrush. Once er is motionless, the deer is usually had begun to run true to form. In- sight of us and turned off. But I can't they saw the gray squirrels in the unable to identify him as a thing to herited tendencies were in a moment believe that it was just a deertree tops. And before Lennox had as fear. It gives a better chance for a changing this weak, diseased youth in But then his words chopped squarely much as supposed they were near the shot. What many hunters take years to a frontiersman and wilderness in- off in his throat. The plodding adhaunts of big game, a yearling doe to learn, Dan had seemed to know by habitant such as his ancestors had been vance commenced again. And the next

presenting a perfect target. It was down with a terrible malady, had in- to think all around the subject, to ac- It was Graycoat, half-blind with his evident that she had heard the sound herited the true frontiersman's in- tually convince himself that Dan really madness, and desperate in his agony. of approaching hunters, but had not as stincts of his ancestors? yet located or identified them with her near-sighted eyes. Lennox whirled to his tracks, evidently with no other pur- a curious adventure. The test of nerve a rattlesnake would have been welcomfind Dan standing very still, peering pose than to study the tall form that and courage was nearer than either of ed beside his. He stood a long instant along the barrel of his rifle. But he now was walking up the trail in front them had guessed. didn't shoot. A light danced in his of him. And he uttered a little exeyes, and his fingers crooked nervous- clamation of amazement. ly about the trigger, but yet there was no pressure. The deer, seeing Len- "Haven't you ever been in the woods curious thing. He beheld Dan sudden- stared a moment at the two figures, nox move, leaped into her terror-pace before?" -that astounding run that is one of the fastest gaits in the whole animal world. In the wink of an eye, she was out of sight.

demanded.

"Shoot? It was a doe, wasn't it?" "Good Lord, of course it was a doe! But there are no game laws that go back this far. Besides-you aimed at it."

"I aimed just to see if I could catch it through my sights. And I could. Dan! This brush is dry. It's dry as his own blood. He assumed then that forth on the ridge without a gun. He My glasses sort of made it blur-but I tinder. A cougar can get over it like Dan was watching something that was fully twenty feet distant from think-perhaps-that I could have shot so much smoke, and a man who's lived from his position, twenty feet behind, Dan; yet he saw in an instant his only it. But I'm not going to kill does, all his life in the hills can usually he could not see. He tried to probe course. This was no time to trust their There must be some reason for the climb a ridge and not make any more the thickets with his eyes.

thousand miles to hunt and then pass ing you walk, and I thought my ears "There's something living in that hand. up the first deer you see. You could must be going back on me. I stopped thicket." almost have been your grandfather, to to see. You were doing it, Dan. You Then Lennox heard it too. As they At the first step his foot caught in a have done that. He thought killing a were stalking-putting down your feet stood still, the sound became ever projecting root, and he was shot to his deer needlessly was almost as bad as like a cat. It's the hardest thing to clearer and more pronounced. Some face on the trail. But a long life in the killing a man. They are beautiful learn there is, and you're doing it the living creature was advancing toward wilderness had developed Lennox's rethings, aren't they?"

Dan answered him with startling

They trudged on, and Lennox grew

thoughtful. He was recalling the pic- And what caused it, and all about it. for the usual footsteps of any of the AN and Lennox started together ture that he had seen when he had Go on and let me think." up the slope of the ridge. Dan whirled to look at Dan, immediately alone was armed; Lennox went after the deer had leaped from its at least to hover in the vicinity of a exactly the position that years of ex- passed down to Dan. It meant that wondered at it. "I'm free to confess "But I'm not sure I want to hunt perience had taught Lennox was cor- possibly, if time remained, he would I don't know," he said. "It's booming less. Of all the many things to learn Of course his courage, his nerve, had don't care to do. Of course it may be 'They are beautiful, and your grand- in the wilderness, to stand perfectly yet to be tested; but the fact remain- a human being. You must watch out takes a certain length of time for the was the beginning of regeneration. nox went on. "Of course it might have They trudged up, over the carpet of deer to look about after it makes its Voices of the long past were speaking been a bear-you never know what sprang up from its bed in the thickets. instinct. Could it be, after all, that before him. For an instant she stood motionless, this slender weakling, even now bowed But before ever Lennox had a chance the edge of the thicket.

have I done now?"

"What have you done! You're doing foot do in my life, before. I've known muscles were set and ready. men to hunt for years-literally years -and not know how to do it. And

that is-to place your feet." understand."

game laws, or they wouldn't exist." noise than a young avalanche. Just Then Dan whispered. Ever so soft teur. He sprang towards Dan, intendfirst half-hour."

emphasis. But the look that he wore he cared to show. "Well, what of it?" subdued, and yet, as the animal ap- nerve control; and only for a fraction he asked.

The result of all this thought was

was a throwback and recurrence of

pine needles, their eyes intent on the abject terror were thwarted and twist-"Listen, Dan!" he cried suddenly, trail ahead. And then Lennox saw a ed by the fever of his madness. He ly stop in the trail and turn his eyes and his red eyes could not interpret Dan turned, smiling. "No. What towards a heavy thicket that lay per- them. They were simply foes, for it haps one hundred yards to their right. was true that when this racking agony For an instant he looked almost like a was upon him, even lifeless trees seem-"Why didn't you shoot?" Lennox something that I never saw a tender- lowered, as if he were listening. His and unreal as he gazed at them out wild creature himself. His head was ed foes sometimes. He seemed eerie

> had retained all the powers of his five wholly without warning, he charged senses, and that few men in the moun- down at them. "Place my feet? I'm afraid I don't tains had keener ears than he. Yet it He came with unbelievable speed. was truth that at first he only knew The elder Lennox cried once in warn-"I mean-to walk silently. To stalk, the silence, and the stir and pulse of ing and cursed himself for venturing

"You're a funny one. Come three now I had a feeling that I wasn't hear- a sound, but yet distinct in the silence. ing to wrench the weapon from his

them; and twigs were cracking be- flexes to an abnormal degree; many Dan laughed, delighted more than neath its feet. The sounds were rather crises had taught him muscle and proached, both of them instinctively of an instant, a period of time that few

wild creatures.

DEC. 18. 1920.

"What is it?" Dan asked quietly. Lennox was so intrigued by the

They waited. The sound ended. They

"That was the funniest thing!" Len-

5

instant a gray form revealed itself at

There was no more deadly thing in Then all at once Lennox halted in type, there ensued on that gaunt ridge all the hills than he. Even the bite of and all his instincts and reflexes that They were slipping along over the would have ordinarily made him flee in of his burning eyes; and the white Lennox had prided himself that he foam gathered at his fangs. And then,

lives to the markmanship of an ama-

But he didn't achieve his purpose. "What of it? That's it-what of it. knew that they were extremely loud instruments are fine enough to meas-

AL ACRES-Percy Agrees that Some Things Are Simply Unexplainable.



766 - 18

ure, did he lie supinely upon the great, boyish yell of joy. His eyes ground. He rolled on, into a position seemed to light. It is a phenomenon of defense. But he knew now he could that is ever so much often imagined not reach the younger man before the than really seen; but the sudden, elatmad coyote would be upon them. The ed sparkle that came in those gray matter was out of his hands. Every- orbs was past denial. The eyes of the thing depended on the aim and self- two men met, and Lennox shook him control of the tenderfoot.

And at the same instant he wondered, so intensely that all other mental -you're Dan Failing himself!" he processes were subjugated to it, why shouted. "No one but him would have he had not heard Dan shoot.

flamed, the white fangs of Graycoat We'll fight that disease to a finishcaught the sunlight. And Dan stood and win!" erect in his path, his rifle half raised to his shoulder; and even in that first ing came into his heritage in the land frenzied instant in which Lennox look- of his own people, and in which a new ed at him, he saw there was a strange spirit was born in him to fight-and impassiveness, a singular imperturba- win-and live. bility on his face.

"Shoot, man!" Lennox shouted. "What are you waiting for?"

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But Dan didn't shoot. His hand C EPTEMBER was at its last days off his thick-lensed glasses. The eyes

mal charged had possibly taken five ready a little silver sheath of ice formseconds. Sometimes five seconds is ed on the lakes in the morning; and for Dan to shoot, it seemed like a period wholly without limit. He won- had time for a dozen killings in a sindered if the younger man had fallen gle night. Fall only begins when the into that strange paralysis that a great rains start; and there hadn't been a terror sometimes imbues. "Shoot!" he trickle of rain since April. It was screamed again.

But it is doubtful if Dan even heard his shot. At that instant his gun slid into place, his head lowered, his eyes seemed to burn along the glittering barrel. His finger pressed back against the trigger, and the roar of the report rocked through the summer air.

The gun was of lage caliber; and no living creature could stand against the furious, shocking power of the great bullet. The lead went straight home, ing him. But the cougar always saw full through the neck and slanting down through the breast, and the coy-It had been a particularly bad season ote recoiled as if an irresistible hand had smitten him. It is doubtful if his luck had changed. The woods were there was even a muscular quiver after Graycoat struck the ground, not even he-and as all men know, he is twenty feet from where Dan stood. And the rifle report echoed back to find only silence.

moved over toward the dead coyote. gine-found it hard to crawl down a He looked a long time at the gray deer trail without being heard. The body. where Dan waited on the trail.

"You take what back?" "What I thought about you-that the Failing line had gone to the dogs. I'll above all others. It wasn't that he never call you a tenderfoot again."

"You are very unkind," Dan answer-ed. He looked rather tired, but was had a black coat and a clumsy stride; wholly unshaken. For an instant Lennox looked at his eyes and his steady hands.

"But tell me one thing," Lennox asked. "I saw the way you looked down the barrel. I could see how firm you held the rifle-the way you kept your head. And that is all like your full of honey. Even the fat beetles grandfather. But why, when you had a repeating rifle, did you wait so long to shoot?"

"I just had one cartridge in my gun. of it until the coyote charged."

by the shoulder.

THE MICHIGAN FARMER

"You're not Dan Failing's grandson had the self-control to wait till the He looked up, and the whole weird game was almost on top of him-no picture was thrown upon the retina of one but him would have kept his head his eyes. The coyote was still racing in a time like this. You're Dan Failstraight toward Dan, a gray demon ing himself, I tell you, come back to that in his madness was more terrible earth. Grandson nothing! You're a than any charging bear or elk. For throwback, and now you've got those there is an element of horror about glasses off, I can see his eyes looking the insane, whether beasts or men, right out of yours. Step on 'em, Dan. that cannot be denied. Both men felt You'll never need 'em again. And give it, with a chill that seemed to pene- up that idea of dying in four months trate clear to their hearts. The eyes right now; I'm going to make you live.

And that is the way that Dan Fail-

#### BOOK TWO-THE DEBT. CHAPTER I.

whipped to his face, and he snatched 🔊 on the Umpqua Divide-that far wilderness of endless, tree-clad that were revealed were narrow and ridges where Dan Failing had gone deeply intent. And by now, the fren- for his last days. September, in this zied coyote was not fifty feet distant. place, was a season all by itself. It All that had occurred since the ani- wasn't exactly summer, because aljust a breath; but as Lennox waited the days were clamping down in length so fast that Whisperfoot the cougar rather a cross between the two seasons-the rag-tail of summer and the prelude of fall.

It was true that the leaves were shedding from the underbrush. They came yellow and they came red, and the north wind, always the first breath of winter, blew them in all directions. They made a perfect background for the tawny tints of Whisperfoot, and walk right up to him without detectfor Whisperfoot, and he was glad that so dry from the long drought that one of the most silent creatures in the wilderness when he wants to be, which are the times that he doesn't want to Lennox got up off the ground and make as much noise as a steam en-And then he stepped back to twigs would sometimes crack beneath his feet, and this is a disgrace to any "I take it all back," he said simply. cougar. Their first lessons are to learn to walk with silence.

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Woof the bear loved this month needed protective coloring. He was "You are very unkind," Dan answer- not a hunter at all, except of grubs and he couldn't have his life had depended upon it. But he did like to shuffle through the fallen leaves and make beds of them in the warm afternoons; and besides, the berries were always biggest and ripest in September. The bee trees were almost under the stumps were many and lazy. (Continued next week).

Feed, as a source of development, is I fired nine times back at the trees about as important as breed, not in and only reloaded once. I didn't think creating impossibilities, but in bettering the possible; so that the heifer, Lennox's answer was the last thing if well bred, if well and properly fed, in the world to be expected. He open- and with discrimnating judgment will ed his straight mouth and uttered a be a more highly developed cow.

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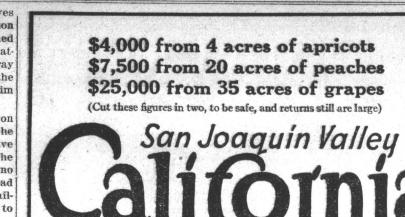
Our illustrated folders, descriptive of California lands, and the trip there, mailed on request. Let me help you plan your trip, and advise about places worth looking over. C. L. SEAGRAVES, Supervisor of Agriculture, A. T. & S. F. Ry., 926 Railway Exchange, Chicago, Illinois.

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quite often the near-sighted deer would INDEMNIFIES Owners of Live Stock - Horses, Cattle, Sheep and Hogs Against Death by Accident or Disease 308 Davidson Building, Bay City, Michigan





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gives much time to thinking on the for a wash stand, \$20,000 for a hat, real meanings of life, though it is not \$50,000 for a piano, and lights his cigknown whether he was Solomon or arette with one-hundred dollar bills, if not. It may have been the Hebrew money hath power to make men hapking, but that is not important, as the py, such men ought to be hilarious. meaning of the book is the same, even But the reverse is the fact. They are though the author is unknown. The not as content as men of simpler first method of achieving happiness, means. The rich man of today has he says, is through the attainment of wealth more vast than the author of wisdom. Let a man study, let him de- Ecclesiastes dreamed of, in his wildest vour books, talk with learned men, moments. When a man can go to bed and the way to the peaceful heart is at night and wake up next morning. open. But he afterward changes his worth twenty-nine millions more than mind, as he tells us. The acquisition he was worth eight hours before, one of wisdom does not yield the fruit he has almost passed into dreamlandhopes for. There still remains an un- and still happiness remains to be woed satisfied void. "And I applied my heart and won. to seek and to search out wisdom con- But what, then, is the message of cerning all that is done under the Ecclesiastes? It is three-fold. First, heaven: I have seen all the works that happiness is incidental. It is a byare done under the sun; and behold, product of right living. When sought all is vanity and a striving after wind, as an end, it ever flits on before us. For in much wisdom is much grief, Sir Launfall travels the world over, in and he that increaseth knowledge in- search of the Holy Grail, and returns creaseth sorrow." The experience of a disappointed man. But when he modern men confirms our author in helps the hungry at his door, a strange his conclusion. The greatest scholars rest enters his soul, Many rich men are sometimes the most melancholy have done good with their money, and of men.

turns his attention to pleasure. In had, what I kept I lost, what I gave, pleasure, he says, in the abandonment I have." That is as true of the man of care and anxiety, happiness is to of ordinary means as it is of the rich. be found. But lo! after hot pursuit of And it is as true of time, ability, inthe phantom Pleasure, she turns out, fluence, as it is of money. like the fable, to be an old and with- r ered hag, that his soul loathes. Listen to his words: "I said in my heart, and do it the best you can. Put en-Come now, I will prove thee with mirth; therefore, enjoy pleasure: and behold, this also was vanity. I searched in my heart how to cheer my flesh with wine, my heart guiding me with wisdom, and how to lay hold on folly, till I might see what it was good for the sons of men that they should do under heaven all the days of their life." He goes on to tell how he bought large estates and went into extensive farming operations; had gardens, parks, trees, artificial lakes, vast numbers of sheep and cattle. He imported men singers and women singers, became a patron of music, and says that he attained to wealth and greatness above any man of his time. And he concludes: "And behold, all was vanity and a striving after wind, and there was no profit under the sun."

HUS far, his search has not been method. The power of money to bring its best. That is what Ecclesiastes pleasure has always been assumed, by a certain class of people. And indeed, we cannot sneer at the power of money to do many things. The man without any money is in a bad way. But Hence by his very omission he teaches our author does not turn to money- that there is something better than making, himself. That would be beneath an oriental gentleman's manner day. And that is to get the zest, the of living. He draws his conclusions life, the vision there is, in following from watching other men make it. He Christ. When one gets that, he does says that he has seen a man toil for his work not because he must, but beyears, amass a fortune, and die, leav- cause he wants to do it. He has a ing his accumulations to a worthless new enthusiasm. soon parts with them He notices also that riches often take to themselves wings and fly away. He likewise observes that the rich man frequently tosses on a bed of down in feverish wakefulness, while the labor- a soap box and then sat on it with his tired man. He states that he is con- front of his house. He was hot and vinced that money, pursued as an ob- held his hat in his hand. Everyone in this.

Americans of the past fifty years have been working three days trying to been beloved by the people, and goes hunt up all the contributors and give on to affirm that not a multi-million- back the money or get spanked twice. aire has had the influence in public life He got spanked once anyway.

HE book of Ecclesiastes is a that Longfellow had, or Mark Twain, study of the question, how to be or Bryan. And when one reads in the happy. The author is a man who papers that a rich man pays \$38,000

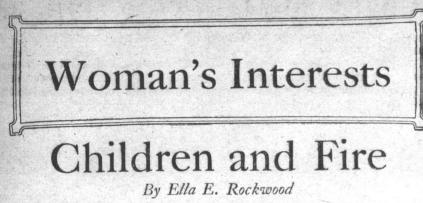
in so doing have been blest. An an-But now the writer of Ecclesiastes cient writer put it, "What I spent, I

'HE second message of our author is, do your duty. Do the day's work ergy, earnestness, conscience into it. Do not make excuses, do not contrive alibis, do not whimper and complain. play the man and do your part. "Fear God and keep his commandments, for this is the whole duty of man." Duty is a great teacher. She is a teacher every man may have, whether he ever attended college or not. John Hay in his little poem, "Jim Bludso," told of Jim and how he stuck to his post, while his ship was on fire. He was a pilot on a Mississippi River boat. He vowed he would "hold her nozzle agin' the bank, till the last galoot's ashore." And he did: He died, doing his duty. The old man who worked in a factory and took care of his invalid wife who had not been out of bed for thirty years, was doing his duty. The young woman who is full of ambition to go to college and become a social worker, but who remains on the farm with her reassuring, but he turns to another aged parents, is an instance of duty at would teach. And happiness comes in the line of our duty.

Ecclesiastes does not know of Christ, for Christ has not come in his day. doggedly doing one's part day after

#### Sunshine Hollow Items By Rube Rubicon

Wilbert Whizzle cut a hole through ing man sleeps the sleep of a healthy, leg in the box. This happened out in ject in life, is a fool's quest. And mod- that went by slipped him ten cents or ern experience confirms Ecclesiastes a quarter, thinking he had lost a leg. When Mrs. Whizzle came out, Wilbert A recent writer asks what wealthy had collected \$2.65 and now he has



against fire. This can be done by be- both highly dangerous when brought ginning early to instil a wholesome near a flame. A spark from an open fear of fire, and by explaining its dan- fire or a flying match head is sufficient gerous nature. Children naturally like to set such a garment instantly ablaze, to play with matches, but the danger owing to the nap which covers the attending this practice should be point- surface of these materials. ed out and if necessary examples Not only should children be taught brought up to show why they should to be careful about fire at every time be let alone. It is better to actually and place, but they should be taught frighten a persistent child by enlarg- what to do in case their clothing ing upon the results rather than fail should be accidentally set on fire. to impress it with the grave danger Have them go through a little fire whch lies in the apparently harmless drill, and have them practice rolling little piece of wood. Matches, the over and over on the floor, which kitchen range and the open fire in the would be the very best thing to do hearth should be shown as sources of should such an accident occur. great harm to little folks and never to be tampered with.

DEC. 18, 1920.

Children dearly love to play about a bonfire, but many little lives are an-fires when out camping, even to the nually sacrificed in the eager desire to tiniest spark, before leaving it. Many watch the flames dance and leap in the destructive fires are started by failure air. A hard and fast rule in every to observe this simple precaution. home where there are little folks should demand that a bonfire is never self-willed or an inquisitive minded some older person. When playing about fire or with matches. A careful exa bonfire, children should wear woolen planation of cause and effect may clothing, than cotton.

Fleecy garments such as outing flan- ble to follow disobedience.

VERY mother should see to it that nel and eiderdown, which are frequent-, her children are taught to guard ly worn indoors in cold weather, are

Older boys should be taught to care fully extinguish the flame from their

It is not enough in the case of a to be lighted save in the presence of child merely to forbid playing with danger and the results which are lia

#### Born Cooks and Others

Until recently the woman on the farm, though a born cook and a peerless housekeeper, has often been handicapped by a lack of information concerning certain new methods that have been adopted in the cities.

To some extent this has been true in the case of Jell-O, which in the cities has for several years been the most popular preparation for desserts and salads.

As rapidly as possible steps have been taken to spread among all women complete knowledge of the subject.

In Domestic Science and Home Economics classes, in city and country, trained women have demonstrated the simple and economical Jell-O way, and recipe books are being distributed thoroughly. As Jell-O is now sold in practically every general store in the country, farmers' wives are enabled to share the privilege enjoyed by their city sisters.

The Jell-O Book, containing recipes for all kinds of plain and elaborate desserts and salads, and explaining the easiest and cheapest way which ignites less readily clinch the matter by pointing out the to make them, will be sent free to every woman who writes and asks us for it. It is a book which every housewife in America should possess.

Jell-O is put up in six pure fruit flavors: Strawberry, Raspberry, Lemon, Orange, Cherry, Chocolate.

> THE GENESEE PURE FOOD COMPANY Le Roy, N. Y., and Bridgeburg, Ont. -

### Little Yuletide Cakes W AS there ever a little girl or boy and bake in a moderate oven. When

"lots" man" cookies , or plummy cakes stuffed full of fruit and spice and everything nice? Little folks always think or brown sugar, one cup sour milk, that little cakes are their especial one-third cup shortening, one and onetreat, so here are a number for the half teaspoonfuls of baking powder, holiday time and other times, some old one-half teaspoonful soda, one-fourth ones that have been favorites in New England homes for generations, and meats, and flour enough to make a batsome newer ones.

However, any cookie dough may be a variety of tints and flavors.

Fruit Sandwiches.

One cupful of sugar, one-half cupful oven. of shortening, one egg, one-half cupful of milk, one teaspoonful of soda, two teaspoonfuls cream of tartar, one tea- of a cup of sugar, one-third cup butter, spoonful vanilla and about two and one-half cup of almonds blanched and one-half cups of flour. Roll thin, put chopped, one teaspoon cinnamon, and the cookies in a pan then place a tea- one and a half cups of flour. Beat well, spoonful of the following filling on drop small spoonfuls on a well-greased each and cover with another cookie.

Filling .- One cupful chopped raisins, one-half cup sugar, one-half cupful of until it thickens.

Christmas Gingerbreads.

cupful of softened butter in a bowl spoonful of soda has been dissolved. until they are well blended. Add a Beat in flour to make the dough stiff cupful of sour milk; stir in also a enough to roll. Bake about twenty quarter of a cupful of hot water in minutes in a hot oven. which a level tablespoonful of soda has been dissolved. Add the grated rind of a lemon, cloves and ginger to cupful butter, three eggs, a pinch of flavor (some like a stronger spice salt, juice and grated rind of one lemflavor than do others), then stir in on, one-half cupful boiling water, one enough flour to make a stiff dough. teaspoon of soda, and enough flour to Roll the dough out thin on the board mix (not too stiff). Roll out and bake and cut into fancy shapes. Place the in a hot oven. When cold, frost with

who didn't coax mother to make almost cold, frost lightly with pink of those spicy "gingerbread and white icing and tiny candies. Maple Sugar Puffs,

One egg, one heaping cupful maple teaspoon salt, one cupful chopped nut ter that will drop from the spoonabout two and one-third cupfuls. Melt cut in fancy shapes suggestive of the shortening and sugar together, add egg season, such as stockings, stars, trees and beat the mixture vigorously. Then or bells, and decorated with icings in add dry ingredients, sour milk and nut meats. Drop from a teaspoon on buttered pans and bake in a rather quick

Almond Cookies.

Yolks of three eggs, three-quarters pan and bake lightly.

Peanut Butter Cookies. Cream together one tablespoonful of water, one teaspoonful of flour and a shortening, three tablespoonfuls of pea little lemon or orange juice. Cook nut butter and one and a half cupfuls sugar. Mix well with two unbeaten eggs, and then add three tablespoon-Beat two cupfuls of molasses and a fuls of sour milk in which one tea-Star Cookies.

One and a half cupfuls sugar, one cakes on a well greased dripping pan white icing. Before the icing hardens, Sterling Textile Mills Clinton, Mass.



Send 15c in silver or stamps for our up to date fall and winter 1920-1921 a concise and comprehensive article on dressmaking, also some points for the needle (illustrating thirty of the vari-ous simple stitches) all valuable to the home dressmaker.

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sizes, 12, 14 and 16 years. A 14-year size requires 3¼ yards of 36-inch ma-terial. Price 12c.



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for fifty years. Purely vegetable. Meets all food laws, State and National. Used by all large creamefies. Will not color the buttermilk Tasteless. Wells & Richardson Co., Burlington, Vermont.



decorate with small pink candies plac- in a buttered pan and bake in a moded so as to form a star. ate oven.

Butterfly Cakes.

butter. seven tablespoonfuls of sour fly shapes. Place a strip of candied milk, one teaspoonful soda, one cupful peel down the center for the body. oatmeal, one cupful shredded ccoanut, Raisins or pieces of date may be pressone cupful chopped raisins and two ed into the dough to imitate the spots cupfuls of flour. Drop from a teaspoon on the wings.

**Oatmeal Goodies.** 

One cupful of sugar, one-half cupful Cut any soft cookie dough in butter-

### A Real Opportunity to Help THE war is over, but the pain and tered by the European Relief Commit-

running sore, seem to be eating deeper by the American Red Cross for mediand deeper, in some parts of the world. cal purposes. We do not want our The future of some nations, and in just readers to feel that this is a threethat same degree, the future of the meal-a-day proposition, because it is world civilization, is menaced. In cen- not. The children are given one meal tral and eastern Europe 3,500,000 chil- a day, which is eaten at one of the dren are starving. We have Herbert seven thousand feeding stations in the Hoover's word for this as well as that afflicted countries. This precaution is of the Red Cross, Y. M. C. A., the Y. taken in order that no adults may re-W. C. A., the Knights of Columbus, ceive food intended for the children the Jewish Welfare Board, and the needing it. The worst trouble is in the American Society of Friends. These cities and it cannot be alleviated until organizations have banded themselves the harvests next August. into one large organization called the Mr. Hoover in his characteristic way European Relief Council, with Frank- has insisted that the governments of lin K. Lane, former secretary of the the countries in which this service is interior, as treasurer, and will under- being rendered shall furnish such sertake the work of feeding this enor-vice as they can toward this maintemous number of starving children on nance of child life, or in other words, and after January 1, when the work of shall provide all administration, all the American Relief Committee ceases. transportation, all labor and all ware-

Mr. Hoover's organization which first fund that Mr. Hoover asks goes almost functioned in Belgium, then northern in its entirely for food, and it only France and finally the whole of Eu- takes one American dollar to feed a rope. Under existing arrangements central or an eastern European child and lack of funds this body will turn for one month, one meal a day. its work over to the newer organization, which Mr. Hoover is backing. Christmas season, who said, "Suffer The very fact that Mr. Hoover's organ- little children to come unto Me," make ization during its lifetime, spent over out a check for whatever amount you two billion dollars at an administra- can afford and mail it to The European tion cost of less than one-half of one Relief Council, Franklin K. Lane, per cent guarantees that the new or- Treasurer, 42 Broadway, New York ganization which is also directed by City. We think this is a fine time and Mr. Hoover will be efficient.

Hoover, is \$33,000,000, which will be does not make any difference to what divided as offlows: Twenty-three mil- country they belong, they are children. lion for actual feeding to be adminis- and should be helped.

misery caused by the war, like a tee, and \$10,000,000 to be administered

The American Relief Committee is housing. Thus every dollar of the

If you feel the spirit of Christ in this a fine way to give some of the children The sum necessary according to Mr. of these districts a chance for life. It

### Some Facts About Smallpox

State Board of Health Says Smallpox is a Real Menace to the People of Michigan

S MALL-POX is a great deal like that during the war large numbers of quack-grass. Quack-grass, twitch- our citizens were brought in contact ed, can usually be killed by intensive world, some of whom brought with cultivation, but as every farmer knows, them infection of smallpox from couna few half-live patches will soon cover tries in which the disease is endemic, the entire field unless precautionary or present at all times; while another measures are taken. So it is with reason can be found in the recent insmallpox. Unvaccinated people are the crease in immigration. ones who keep the disease in existence.

ple in this country have grown neglect- physical signs of the disease. Thus ful of the dangers of the disease. We there has frequently been a failure to have had a long period of comparative recognize the disease until a large freedom from smallpox. Like the farm- number of cases has developed. Inaser who summer-fallows the field infest- much as the form of smallpox now ed with the long white roots of quack- present in Michigan is so mild that in grass we, for a long time had physi- many cases no physician is called, the cians vaccinate our children and our- characteristics of the disease should selves wherever there was the slight- be learned by people generally, so est danger of catching this disease, that smallpox may be checked as soon And we were careful to see that when as it appears. the immunity of the vaccine wore off In smallpox the first symptoms are the use of vaccine as a preventive and ature. curative measure for smallpox.

American people. For this there are therefore an eruption, especially a papseveral reasons. One is, of course, ular eruption becoming vesicular, ocour carelessness in regard to the mat- curring in a person more than ten or ter of vaccination; another is that fact twelve years of age, should be regard-

grass, or Johnny grass as it is call- with people from all parts of the

An important factor in the spread of smallpox is the prevailing ignorance During the past decade or two, peo- of the characteristic symptoms and

we were again vaccinated. It was in headache, backache, chills and fever, this way that smallpox was rendered lasting about three days, followed by one of the least feared of infectious the aforementioned eruption. - Fever diseases. In fact, it became an uncom- subsides when the eruption appears. mon sight to see a pox-marked person, In chickenpox the fever begins when ' an almost certain sign that he was a the eruption appears and usually the foreigner coming from some European first sign observed is the eruption, accountry which did not enforce, or urge, companied by a slight rise in temper-

It should be remembered that adults Now the disease again menaces the seldom have chickenpox, and that

ed as probably smallpox. The same precautions should be taken as in cases of recognized smallpox, until some competent authority has decided that the disease is not smallpox. It is even best to take such precautions in chickenpox, since smallpox has often been diagnosed as chickenpox, the mild form of smallpox making the error more common of late. By taking all these precautions members of the family will be protected against possible infection. Public interests should be given the benefit of every doubt.

Facts About Smallpox. The immunity of vaccination lasts

about five years. People should be vaccinated against smallpox because of the danger of exposure from travelers, and in many unknown ways.

The failure of large masses to be vaccinated renders Michigan liable to a widespread epidemic of the disease.

Thus at the present time smallpox is a real menace to our national health and welfare. Yet it is entirely within the power of any people to erect the barrier of vaccination against the disease, the one preventive measure which has proved effective. Here are two examples of the effectiveness of vaccination against smallpox.

In Cuba, during 1896 and 1897 there were more than a thousand deaths yearly in the city of Havana alone from smallpox. Following the American occupation of the island vaccination was enforced among all school children, as well as among those adults who could not furnish evidence of recent vaccination. Between the years of 1901 and 1917 only one person in the city of Havana died of the disease. In 1909 Japan passed a law requiring vaccination of every infant within ninety days after birth. This measure has greatly reduced the number of cases and deaths, and there are no longer serious epidemics of the disease in Japan.

Epidemics of smallpox do not start in the United States. The cases always develop after some person coming from an infected country becomes sick with the disease. During 1919, two thousand cases developed in California from alien sources, while several states which do not rigidly enforce vaccination have reported a prevalence of the disease.

Smallpox is an acute, infectious disease, characterized by sudden fever, which is followed in forty-eight hours by an eruption appearing on forehead, face and wrists, and gradually passing over the entire body. The temperature as the eruption appears, and within from ten to fourteen days the disease passes through various stages until the eruptions become crust-like. As a rule smallpox attacks a person but once, though instances of second attacks have been reported.

COLORS Black

White

Suede

Dove

Green

Vaccination has rendered the disease so mild that when Americans 10) when ordering. have been taken sick with it, even though never vaccinated themselves, it has often been mistaken for chickenpox. The very mildness of the disease has greatly increased the difficulty of its restriction.

NEW DEAN OF WOMAN'S DEPART-MENT AT M. A. C.

**RRIVAL** of Miss Mary E. Sweeny, A president of the American Home Economics Association, and formerly head of that branch of extension work at the University of Kentucky, to take up her duties as dean of home economics at M. A. C., has already convinced persons intimately connected with the life of the college that the work of training Michigan young women along these lines, and of taking the gospel of efficient management in the household to the homes of the women of the state, will be in the hands of a capable and magnetic personality.-HENSHAW.



### **Healthy Children Make Christmas Merry**

Christmas is always merry where there are happy children, bubbling over with joy and anticipation. Growing children are always happy when they are receiving proper nourishment from the right foods.



ROWENA trade-mark on the sack

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THE MICHIGAN FARMER

# Our Boys' and Girls' Department

### Hereford Cattle for Boys and Girls This is the Second Article on a Study of Breeds-By L. I. Case

for a moment. You will see numbers and silky. of farm houses snuggled up close to picture these luxuriant pastures dot- the cow to produce calves. ted with broad-backed, deep-bodied, thick-fleshed and mossy-coated cattle that have beautiful white faces, white crests, white underlines and white stockings, and you will have a good idea of Herefordshire, England, the ancestral home of the Hereford breed of cattle.

The date of the first importation of Herefords into America is rather indefinite, but all authorities agree that it was the latter part of the eighteenth century or the first of the nineteenth. After that time they spread, slowly at first, but later as ranchmen learned of their ability to live and thrive under all and any conditions their popularity increased until now the entire range has been conquered by them.

Description of the Hereford.

In general appearance, the Here fords approach closely the ideal beef form. They are broad, deep, close to the ground, straight in the back and underline and with-al very square and compactly built.

While there is some variation in the color markings of the Herefords, the favorite type is a medium red with a clear white face, white over the crest running back to the shoulders, white on the leg not higher than the knees, a white switch on the tail and white on the underline, but not running up too high on the flanks.

The head should be short and broad, wide between the eyes, which should be large and clear. The muzzle or nose should be broad, which indicates that the calf is a good feeder. The horn is medium-sized, flat and coming out straight from the head and curving downward and outward, it should also curve a little bit forward. Particular attention should be given to the neck to see that it is short and joins to the shoulder blade without any bulging. The shoulder should be wide in proportion to the rest of the body and so smoothly covered that it is impossible to tell where the shoulder blade joins the body. Immediately back of the shoulder is the cavity which contains the heart and other vital organs: the ribs and shoulder at this place should be wide and deep. Plenty of thickness in the chest with a good deep body gives plenty of room for the vital organs and an animal Herefords more often bring the high- cattlemen, who have handled the dif- stall or pen will do very well. could not have a hardy constitution est price on the big markets of the ferent breeds under the same condi- The stall should be well lighted, exwithout plenty of chance to expand United States than all the other breeds tions. Scarcity of feed caused by cept that during the fly season a darkand grow. The ribs and back should combined. spring out from the backbone like the 2. Herefords are hardy and free the Herefords nosing away the snow little pests. The floor of the stall staves from a barrel.

The loin should be wide and thick be- The fact that Hereford calves fatten be brought to them.

ID you ever stand upon a moun- throughout. The tail-head should be little whether it took two, three, four the different breeds say that they have

chards, broad, velvety, rolling pastures a very feminine head as this indicates feeders that show they are of Here- of the cow, a good Hereford bull will running down to the river's edge. Now the breed character and the ability of ford blood. The prices quoted on Here put the quality mark on the offspring.

tain or a hill-top in June when level on the top and join the body per- or even five and six years to grow a raised a bigger calf crop from the all the country is in bloom and fectly smooth. Legs should be very steer and get him ready for market. Hereford cows than from the other look down upon a beautiful green val- short and set on the body straight, Today it is different. Much of our breeds. That inborn instinct to go the ley with a river winding its way lazily with medium-sized bone. The hide large range areas have been cut up limit to find feed and water will acthrough the low-lands? If you have should feel very loose and pliable to into small farms and these farms are count for Hereford cows taking better not, picture such a valley in your mind the touch and the hair should be soft high in price. Grains and feeds of all care of their calves and consequently kinds are expensive. For these rea- raising a larger percentage of them. In selecting a heifer it is very im- sons, the feeders of the corn belt are small orchards, and beyond the or- portant that you should get one with paying a higher price for calves or No matter what the color or makeup

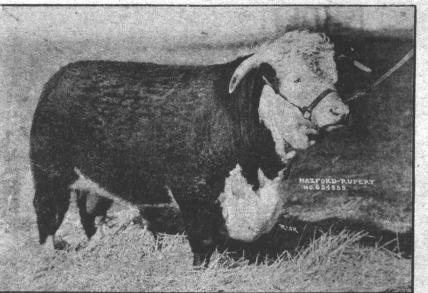
### **Congratulations Boys!**

**E**VERY boy and girl in the state may well feel proud of the work done by their representatives-Carl Johnson, Walter Ball and Rex Stow-in the judging ring at the recent International at Chicago, where they were awarded second place in the junior judging contest.

In behalf of the readers of this department, we are extending their heartiest congratulations to each of these successful contestants who have brought much honor upon the state and particularly upon the thousands of members of our Boys' and Girls' Clubs.

bull's head should be very strong-look- that on all other breeds. thicker than that of the female.

ing and far removed from daintiness 4. Herefords are the best rustlers Let us consider some of the things when these are scant This one trait that have won them this popularity, has won the respect and admiration of iably won many friends. 1. Herefords are market toppers. many a cattleman. Many instances Records show that carloads of finished have been brought to our attention by



Hazford-Rupert, the Product of Skillful Breeding.

drought or heavy snows have found ened stall affords protection from the from disease. Government records or covering a wide range of territory should be clay, earth or cinders and The back should be straight and show that there is less tuberculosis in search of food to carry them well-bedded with clean, dry straw. A perfectly level from where the neck among Herefords than any other breed, through, while the other breeds stand concrete or other hard material used joins the shoulders to the tail head. 3. Herefords reach maturity quickly, huddled together, waiting for feed to to floor the bottom of the stall is often

cause this is where the highest-priced easily and get ready for market quick- 5. Herefords produce a large calf limbs. cuts of beef are taken, but the thick- ly make them most popular with the crop. The Hereford cow is a better ness should conform with the rest of feeder and packer. In years past, when producer of calves than those of other Cleanliness is only a matter of a the body and be smoothly covered land and feed were cheap, it mattered breeds. Rangemen who have handled few minutes a day, but it means

6. Herefords, the prepotent breed. ford feeder cattle at our leading mar- The calf will have the white face and In selection of a bull choose one kets usually run from fifty cents to other color markings of the sire and what is more important it will have that quality and low-set, square, blocky makeup that is desirable in the ideal beef animal.

7. Herefords, the most economical producers of beef. That the Hereford can be fattened at any age profitably has been proven time after time. In a breeding and feeding experiment at the Kansas State Agricultural College, covering the four-year period from 1909 to 1912 inclusive, the Herefords showed that they would produce more beef at less cost and more profit than the other breeds. They outweighed. out-gained and out-sold all the rival breeds when handled the same way and given the same feed.

8. Herefords make good under all conditions. The same characteristics that has the opposite tendency. A \$1.75 per hundred weight better than that make Herefords so popular on the range cause them to give satisfaction when better feed and more of it and the neck should be considerable The hardy, rugged constitution, which is given them on the farm or in the has been a characteristic of the Here- feed-lot. Under any and all conditions Reasons for Popularity of Herefords. ford ever since the breed has been wherever they have been given a trial, Hereford cattle in all parts of the known, has given them the courage to Herefords have proven their ability to world have been gaining many friends. rustle for feed and water in times make the best use of conditions as they have found them and have invar-

#### Suggestions for the Beginner.

To a beginner it is of primary importance that he make a study of the Hereford breed and select individuals that measure up closely to the ideal or perfect animal. Also, if money is to be made in raising pure-bred cattle, they must be well cared for. As the most critical time in an animal's life is the first twelve months, let us consider the care of the calf.

Care and Feeding of Calves.

Probably the first essential in handling any young stock successfully is to have unlimited patience. Calves are more intelligent than most persons give them credit for being, and the boy or girl who has patience and studies the individuality of his or her calf is the one who will be ultimately suc cessful. The more quietly and gently the calf is handled, the fatter he will get, and less feed will be necessary and the shorter the time will be taken in fattening.

#### The Calf Stall.

A box stall is the most satisfactory, if available, though a clean dry tie-

the cause of stiffness in the calves'

#### Cleanliness.

# To Fulfil Promises Begets Confidence

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ise you a "Bigger and Better Michigan Farmer" for 1921.

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Self-

Heating

Poultry



calf. Remove all manure from the formation he will assume. stall or pen daily and replace with During the day when the weather is clean. Once each week thoroughly tial as feed and water. clean every corner and portion of the stall or pen.

#### Regularity.

necessary chores at the same hour the daytime. every day. Do not feed early one day At all times watch your calf to find and late the next, for the calf will not out his likes and dislikes. Try to feed gain or thrive as well if systematically what pleases him and do not mix in attended to. When the work is regu- feeds that are not to his liking. larly done, it does not take so long Place a lump of salt in the stall and to do it, and it is more easily accom- pasture, where the calf may lick it as plished.

#### Feeding.

Probably the most important point At all times have clean, fresh water to be observed in feeding calves is to where the calf can easily drink. Where feed at the same hours each day. It a bucket is used, clean it thoroughly has been found best to have the morn- every day. The calf likes a clean dish ing meal and evening meal just twelve as much as you do. Refill the bucket hours apart and the other meal just two or three times a day, being espehalf way between.

Good quality hay, clean and free weather. from dust or mold, should be placed each day where easily accessible to down and keep placing fresh hay on ders in the appearance of the calf. top, but put out just enough for each day.

A small amount of silage may be fed the hair. successfully, but a large amount of sil-

pounds per month in the growth of a the more nearly the ideal shape or con-

clean, fresh straw. Keep the hay man- cool and the flies are not bothersome, ger, feed trough and everything that turn the calf out into a lot or pasture. comes in contact with the calves' food Grass and exercise are just as essen-

During the hot weather and fly time let the calf out in the pasture at night and where possible keep in a cool, Feed, water and perform the other well ventilated and darkened stall in

he pleases.

#### Watering.

cially careful about this during warm

#### Grooming.

Five or ten minutes a day with the the calf. Don't put a large quantity brush and currycomb will work won-

Use a comb only to remove mud and manure which may be attached to

Thoroughly brush all the dirt and age or hay and a small amount of grain chaff out of the body and tail, brushing feed will produce a more or less with the hair. If the hair is long after paunchy calf. the dirt has been well cleaned out, The more grain you can induce a brush up, that is, brush against the calf to consume and the less roughage, hair and you will in a short time find the more meat the calf will put on and that your calf is as pretty as a picture.

### **Breeding Poultry**

(Continued from page 751). bor reduced.

is the purchase of a few good male run a few cents on the chick is insigbirds, and selecting some of the best nificant alongside of the value of the customed to life on the range if possi- or to get the very best he can find. ble. Many failures to build up the vig- A few words of advice about buying or and productivity of the farm flock baby chicks. Make a careful study are due to selecting males with fine of your conditions and decide the numfeathers rather than utility birds pos- ber desired. Always bear in mind that sessing strong vigor and inherited egg- in order to get the most desirable earproducing qualities. A man buying ly hatches it is necessary to place orcockerels should know the conditions ders early. The number of chicks under which they were developed as needed will be determined largely by well as the type of birds he wants, the number of pullets desired to renew Fine feathers and a particularly artis- the flock in the fall. One safe rule to tic spreading of the feathers in the follow is to order three chicks for evtail do not always indicate a vigorous ery pullet desired in the fall. Next bird.

is necessary to send away to buy cock- chased on the farm where they are erels rather than buy them of some hatched, all the better, but unless you poultryman-farmer where the blood are satisfied with the quality of the lines as well as the conditions under breeding stock do not hesitate to buy which the stock is kept are necessary the eggs elsewhere, even though it in building up the flock. The purchase may add two or three cents a head to of hatching eggs and developing one's the cost of the chicks. This is a small own cockerels has some advantages item compared with the value of the over purchasing them from other crop of pullets. farms. It gives a better selection, besides the birds may be developed in a DEFINITE PLANS FOR ST. LOUIS manner more satisfactory than is the case when they are purchased from some other farm.

definite and all breeding, fertility and est extent.

hatching risks are eliminated, and a laid more eggs, the feed bill was re- fair start is secured. But do not make duced more than one-half and the la- the mistake of thinking that anything will do. It will pay handsomely in the Probably the cheapest and most ef- end to buy chicks that come from vigfective way to build up a farm flock orous and reliable layers. In the long females in the flock to mate with extra eggs she will produce if she them. Care must be taken to buy young proves a good layer. In securing the males of good size, bone and stamina; chicks from which to develop pullets those descending from farm stock ac- for the laying flock one should endeav-

choose a reliable breeder with whom Many farmers have a feeling that it to place an order. If the eggs are pur-

### MARKETING COMPANY.

Another good method of making the DEFINITE plans have been formu-lated by the Southern Illinois change from mongrel birds to pure- Milk Producers' Association and Illibreds is to buy hatching eggs and in- nois Agricultural Association to organcubate them. This way one assumes ize a cooperative milk marketing comsome risk, and must decide which in- pany. At a meeting of farm advisers cubator to buy and learn how to oper- from the farm bureaus in the St. Louis ate it. If one feels competent to as- district recently, plans were made for sume this task, and has the necessary cooperating with the Milk Producers' time it is a mistake to invest in some Association in each county and for cheap machine that does imperfect having the farm bureau offices be the work. For the farmer who is unusually headquarters for county campaigns. busy during the incubating season the The farm advisers feel that the milk real economical way is to buy day-old marketing problem is a serious one chicks. Here one is getting something and are ready to cooperate to the full-

### **Our Service Department**

#### DISPOSAL OF LIQUID MANURE. ing two pounds of oil meal a day and

DEC. 18, 1920.

intimate. All the gutters are built so amount of protein. that they will drain into an outside cistern or reservoir. When the stables are cleaned of the solid manure in many instances then the gutters are in many instances then the gutters are I have considerable millet seed and washed out or flushed out. This, of would like to know its feeding value course, makes the stables somewhat and to what kind of stock it is best to en care of by absorbents. Dry straw will absorb the liquid manure so that it can be hauled out with the solid manure when the stables are cleaned. Of course, there will be a slight amount this one will use acid phosphate sprinkled on the floor and in the gutter every day after the stable is cleaned it will prevent any offensive odor, will element of plant food.

If one can take care of the liquid for everything except poultry .-- C. C. L. manure by absorbents it does away with a larger amount of work in disposing of the liquid and washwater HENS WITH BRONCHITIS .- WEAK after it has been drained into a cistern. This is more of a job in the winter time than in the summer time because a rattle in their throats when they your sprinkling system does not al- breathe. I first noticed it two months your sprinkling system does not always work well in cold weather. C. C. L.

#### COOKING WHEAT.

I have, but not lately, cooked whole wheat until the kernels would burst open, and fed it to hogs, and it would come through them whole the same as they swallowed it. Now, did they get the benefit of it as they would if it had been ground and fed raw? I have had been ground and fed raw? I have had beens do the same thing. Eaton Co. L. G. T.

It would help very much to cook the the time to properly masticate such cooked after it is ground. C. C. L.

#### ADDITIONAL PROTEIN NEEDED.

could be somewhat improved by add- destroy the lice.

then feeding a sufficient amount of In building my barn I have not solv-ed the question of how to treat the liquid from the gutters. I understand some people run a drain out to a cissome people run a drain out to a cis-tern and then later pumped this into a sprinkler and spread on the land. Please let me know if you think this practical, or if you have some other system you think is better. Wayne Co. J. H. In most all of the up-to-date market feed of clover hay or alfalfa hay I milk plants the liquid manure in the would say that your prepared grain gutter is disposed of in the way you mixture would furnish a sufficient C. C. L.

#### MILLET SEED AS A GRAIN.

more sanitary. However, for ordinary feed it, and how far it would take the dairy barns liquid manure can be tak- place of cottonseed meal or linseed for mileb cover? meal for milch cows? What is the seed worth as a feed? It is very nice or chaff placed in the gutter every day seed but cottonseed meal costs here with plenty of bedding for the cows, \$3.00 per hundred pounds and I don't will absorb the liquid manure so that know whether to self the millet or grind it for feed. Eaton Co.

Millet seed has about the same food left every time but this is changing analysis as corn or oats. It does not constantly from day to day so that it differ materially but it is very much doesn't get offensive. If there is plenty unlike cottonseed meal and therefore of bedding used for absorbents you will it would not take the place of cottonhave no difficulty. If in addition to seed meal. Cottonseed meal being very rich in protein and millet seed contains only a moderate amount. It would be more of a substitute for corn, absorb a large per cent of the moisture oats or barley. I do not know the marand will make the manure much more ket value of this seed at the present valuable because it adds phosphorus time, but I have an idea that it would to the manure which is lacking in that pay you to sell it. Of course, if you feed millet it must be finely ground

### CHICKS.

I have some hens that seem to have ago and gave them roup medicine, and they got over the attack, but now they have the same thing again. They go blind in one eye which swells up, but the hens do not die. Will you tell me what is the trouble? My little chick-

bronchitis. They may recover in a short time but such birds are more subject to the disease again. It is wheat but even then hogs do not take most apt to occur when the hens have been out in a cold wind or rain storm. food and it would be much better to Roosting in a draughty coop may cause grind it always and grind it fine. colds and bronchitis. A tablespoonful Where the kernel passes through the of castor oil and about five drops of animal whole, only a portion of the turpentine may help the bird. It should nutriments has been assimilated and be placed away from the flock as colds there is a whole lot of waste that one spread rapidly by means of the drinkcannot afford. If the wheat is cooked ing water. Potassium permanganate thoroughly it can be mashed up as in the drinking water helps to reduce you mash potatoes and get better re- the chances of colds spreading. Color sults, the same is true with beans, if the water a deep crimson. A small they are cooked until soft they can be amount can be made up as a stock mashed and you will get better results. solution and enough added to the wa-It is quite essential that the beans be ter each day to color the drinking wacooked whether in meal or whole, as ter. Do not breed from birds that they are more digestible. In case of have had colds. It usually pays to get wheat it is not necessary to have it rid of them because of the danger that the trouble will occur again and possibly spread.

The young chicks may die because of a lack of vitality in the breeding I am feeding ground beans and oats equal parts. We fix two sacks of that with one of bran. What can I add to make a good ration for dairy cows? Our rough feed is corn ensilage and No. 1 mixed timothy and clover hay. Charlevoix Co. R. G. during hot weather. A bit of lard I am of the opinion that your ration placed on the head of each chick will



### Keeping Tabs on Health Pays

THE whole scheme of home treatment—both as a profitable dairying leads back to the subject of health. No way of escaping it. A cow is profitable or not, according to the degree of vigor of her milk-making organs. Watch the milk-yield closely; it's the barometer of health. Reduced milk-flow means the presence or approach of disease.

Each year more thousands of dairy farmers are learning the value of the simple Kow-Kare

DAIRY ASSOCIATION

Lyndonville,

NOTE: The trade-mark name has been changed from KOW-KURE to KOW-KARE-a name more expressive of both the PREVENTIVE and CURATIVE qualities of the remedy. There is not the slightest change in formula or manufacture.

in blood lines to Effies Lass also four

more choice bulls which are old enough

for service and sired also by the cham-

pion show and breeding bull Black

Our herd is under State and Federal

WILDWOOD FARMS

**ORION, MICHIGAN** 

Monarch 3rd.

Supervision.

W. E. SCRIPPS, Prop.,

preventive and reliable aid in relieving diseases of the genital and digestive organs. Barrenness, Abortion, Retained Afterbirth, Scouring, Lost Appetite, Bunches can be kept out of your dairy with the aid of this great cow medicine.

Give Kow-Kare a trial; feed dealers, druggists and general stores sell it—70c and \$1.40 V-KARE Write for free, packages. book, "The Home Cow Doctor," COMPANY Vermont BREEDERS' DIRECTORY **WOODCOTE ANGUS** Change of Copy or Cancellations must reach us Ten Days before date of publication Imported Herd Bulls ELCHO OF HARVIESTOUN (45547) by Jason of Ballindalloch (38048) Vildwood Farms EDGARDO OF DALMENY (45501) by Escort of Harviestoun (36006) Weodeote Stock Farm, Ionia, Mich. Angus **The 2nd Annual** Sale will be Effies Lass 238203 sold on May 6th for \$7100. She was sired by Black Mon-arch 3rd. We are offering for sale Ed-0vid, Mich. A few females and an aged bull to spare at private sale. arch 3rd. We are offering for sale Editor of Wildwood 295059 a full brother

Reg. Aberdeen Angus bulls and heifers from 6 to fb reeding, also Berkshire Swine, boars ready for service and pigs both sex singles, pairs or trios, will accept Liberty Bonds. RUSSELL BROTHERS. Merrill, Mich.

For Sale Having decided to sell part of my herd of pure bred Aberdeen Angus catle, consisting of males and females of different ages. ANDREW P. EITEL, Vermontville, Mich.

**Village Farms Guernseys** for sale High grade milking cows, heifers and heifer calves. Also registered buils from I month to serviceable age whose dams are on test and making good records. Write or come and see the herd. Reg Griffin Herdsman, O.J. Winter Prop. Sebewaing, Mich GUERNSEYS BULL CALVES Sidney Smith, Supt, HICKS' QUERNSEY FARM, Saginaw, W.S. Mich.

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### INTERNATIONAL HAY AND GRAIN AWARDS. \_\_\_\_\_\_ 3rd, L. H. Laylin Mason Mich.; 4th, F. J. Lindley, Fox Lake, Wis.; 5th, Richard Jewett, Mason, Mich.

M ICHIGAN readers will be inter-ested in the following awards made at the recent International Grain and Hay show:

Not ester in the following and an indication of the problem in the following and an indication of the problem indication. The problem is the problem indication of the problem indication of the problem indication of the problem indication. The problem is the problem indication of the problem indicatio

Oaks, Mich.

Yellow Corn. Region Two.—1st. Charles Laughlin, Three Oaks, Mich.; 15th, L. H. Laylin, Mason, Mich.; 21st, A. W. Jewett, Jr., Mason, Mich.; 24th, R. Jewett, Mason, Mich.; 25th, Ralph Jewett, Mason, Mich. Mich.

#### White Corn

14th, A. W. Jewett, Mason, Mich.; 19th, Farley Brothers, Albion, Mich.; 20th, L. H. Laylin, Mason, Mich.

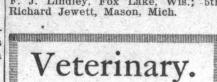
Flint Corn. 8th, A. W. Jewett, Jr., Mason, Mich.; 9th, R. Jewett, Mason, Mich.; 10th, R. Layens; 21st, G. J. Frederick, Brook-ings. Mich.; 22nd, L. Jewett, Mason, Mich. ings, Mich.

### Field Peas. 4th went to John Dunbar, Rudyard,

Mich. Special awards on corn for Region 2.—Chas. Laughlin, (Yellow), Three Oaks, Mich.

Alfalfa Hay. 1st, Swartz Brothers, Waukesha, Wis; 2nd, W. J. Otchick, Greenville, Iowa; 3rd, Jacob Willett, Hillsboro Ohio; 4th, J. D. Peterson, Omaha, Nebr.; 5th, A. W. Jewett, Jr., Mason, Mich.; 6th, O. F. Otchuk, Greenville, Iowa; 7th, Duke Sutherland, Alberta, Canada; 8th, La Crosse County School, Asalaska, Wis; 9th, Sauerman Broth-ers, Crown Point, Ind.; 10th, Charless Hourtt, Randolph, Wis.; 11th, A. J. Stan, Portage, Wis. Single Ear Corn

Stan, Portage, Wis. Single Ear Corn. In the single ear class for Region 2, Chas. Laughlin, Three Oaks, Mich., was awarded 15th place; Ralph Jew-ett, Mason, Mich.; 22nd; L. H. Laylin, Mason, Mich., 23rd. Clover Hay. Ist, W. F. Othick, Greenville, Iowa; 2nd, A. W. Jewett, Jr., Mason, Mich.; Clover Hay.



CONDUCTED BY DR. W. C. FAIR.

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

Malignant Sore .-- We have COW which, when we bought her four or five years ago had large sore on face, extending from nostril to eye. This extending from nostril to eye. This sore has been healed, but persists in opening and discharging pus. I am told it was caused by her running into a barbed wire fence and wounding her face. Just now face is healed. What a barbed wire fence and wounding her face. Just now face is healed. What line of treatment do you recommend? W. L., Holt, Mich.—Occasionally paint sore parts with tincture of iodine. She will never fully recover. Would it not pay you to fatten her for beef? Chronic Indigestion.—As soon as I turn my cows out in the morning they begin grawing on posts, boards or any wood they can get hold of. What is the cause of their allment? They are fed on salted ensilage, alfalfa hay and ground oats. W. R., Columbiaville, Mich.—Feed each cow a tablespoonful of powdered gentian and three table-spoonfuls of powdered wood charcoal spoonfuls of powdered wood charcoal at a dose in feed two or three times a day. Feeding same kind of feed too long a time is perhaps the cause. Sweeny .--- I wish you would give me

a remedy for sweeny in draft mare, only one shoulder affected. C. T., Eaton Rapids, Mich.—Apply equal parts of turpentine, aqua ammonia and raw linseed oil daily.

Shy Breeder.—I have a cow which I have failed to get with calf; have driven her away about five or six times, and so far nothing doing. Cow is about eight years old, normal oth-erwise, eats good, comes in heat reg-ular. What method should I pursue to get this cow with calf, if any? H. M., Rosebush, Mich.—Dissolve four ounces of strictly pure bicarbonate of soda in two quarts of clean tepid water, and with fountain syringe flush vagina three hours before she is served. In the course of time she will perhaps get with calf. If very fleshy, reduce her and be sure that she has daily exercise.

Abortion in Cows.—How shall I treat abortion in cows? O. A. J., Allegan, Mich.—Clean and disinfect your stable and keep it clean. Separate the aborter from well cows and heifers. Burn or deeply bury dead calf and af-terbirth. Keep the aborting cow away from balance of herd for three weeks, or leave one open stall between her and well stock. Don't breed her for six or eight weeks. Don't sell an aborter if she will breed, especially if she is well-bred and has been a profit-able dairy cow. A clinging afterbirth will generally come away, but if taken by hand it should be done within twenty-four, forty-eight or sixty hours after calving. When roughly done the in-ner wall of uterus is always damaged. Without proper instruments flushing of the vagina had better not be done. Give your stock good care and after a time the cows will carry their calves the full gestation period.

Sidebone.—Is there any remedy for sidebone and if so tell me what to apply. F. M. G., Owosso, Mich.—Low-er the heel and paint bunch with tinc-ture of iodine daily. Avoid fast driv-ing on hard road. ing on hard road.

Eczema.—The hair is dropping out in spots about the eyes, tail hair is shedding some, but skin is not sore. W. A. L., Filion, Mich.—Apply one part kerosene and nine parts petrolatum to scalp of tail and bald parts of the body overy day

churning time. Scurvy.—Have two young pigs, both are troubled with scurvy. Have applied fresh melted lard to their back. Have no milk to feed them. Mrs. L. L. F., Niles, Mich.—Apply one part oxide of zinc and six parts vaseline to scurvy part of body daily. Feed some vegeta-bles and roots and keep them in a dry clean place. Mater. DUROC JERSEYS Carer U. Edmonds, Hastings, Mich. DUROC JERSEYS L. D. HENDENBERK. Wayland, Mich. Pleasant View and oren gilts. W. C. BURLINGAME & SON, Marshall, Mich. Sales Mgr.



Sale BRED SOW Sale

sey boars ready for service. W. H. MAYES, L. B. 505, Durand, Mich. Duroc Jerseys Boars sired by Ed's Defender Col. and Thorn Apple Col. The 2nd one yearling Boars by Orion's Fancy King. FREY BROS., Caledonia, Mich.

Duroc Jersey boars from 6 mo. to 1 yr. old. Young good condition and at fair prices. Safe delivery gnar-anteed. W. E. HARTLEY, Alma, Mich.



Down With Prices on last fall and this spring's O. F. C. Boars. WEBER BROS., Royal Oak, Mich.

Central Mich. O. I. C. Swine Breeders Ass'n. Hogs of all ages of popular blood lines. Every sale guaranteed by association. DR. H. W. NOBLES, Coral, Mich.



#### **GRAIN QUOTATIONS** December 14, 1920.

Wheat. SEEDS Detroit.—Cash No. 2 red \$2.02; De-cember \$1.93; March \$1.91; No. 2 white and No. 2 mixed \$2. \*2.01 (2.02); De-largely with the farm grains and are lower than a week ago. Foreign crops Chicago.—No. 2 red \$2.01@2.02; De-cember \$1.70½; March \$1.64¾.

Corn.

yellow 811/2@82c.

Oats. Detroit.—Cash No. 2 white 55½c; No. 3 white 54c; No. 4 white 50c. Chicago.—No. 2 white 50½@50½c; No. 3 white 491/4 @50c. Beans.

Detroit.—Immediate and prompt are lower at \$4@4.10 per cwt. Chicago.-White beans steady. Hand-picked beans choice to fancy \$4.50@ 4.75; red kidney beans \$9@10 per cwt. New York.—Market continues dull. Choice pea \$5@5.25; do medium \$5.50 @5.75; red kidney \$10@10.25.

Rye. Detroit.—Cash No. 2 rye \$1.57. Seeds.

Detroit .- Prime red clover \$12.25; February \$12.40; alsike \$16.75; timothy \$3.50.

Toledo.—Prime red clover, cash and December \$12.20; alsike \$16.50; timothy \$3.50.

#### WHEAT

Each passing week seems to bring new evidence of the strong statistical position of the wheat market. It is now estimated, based upon careful cal-ter is bring states in culations, that the United States is practically on a domestic basis so far as its wheat supplies are concerned, although purchases by foreign countries in our markets are made when-ever prices decline sharply. The 1920 ever prices decline sharply. The 1920 crop plus the carryover of wheat and flour from 1919 made a total available at the beginning of the season of about \$10,000,000 bushels. Allowing for the average domestic consumption, disappearance in the form of mill screen-ings and otherwise, wheat used as feed and the average crop carryover together with the amounts exported up to December 1 and the wheat sold abroad but not shipped, there is a total of about 925,000,000 bushels. It is estimated that about 20,000,000 bushels have been imported from Canada up to the present time so that the balance remaining to be sold to foreign coun-tries, if we consume the usual amount in this country and have the usual carryover on July 1, 1921, was not more than 5,000,000 or 10,000,000 bushels. On one day the past week, 3,500,-000 bushels were sold to European countries of which 1,500,000 bushels were domestic wheat and the remainder Canadian. The Argentine surplus is probably around 120,000,000 bushels and Australia has 80,000,000 or 90,000, 000 bushels. Reports within the past week from both countries tell of wet weather during the harvest season, causing more or less damage. It was reported during the past week that fifty per cent of the Australian surplus has already been sold to England, and France is reported to have purchased 26,000,000 bushels more. Drought con-26,000,000 busnels more. Drought con-tinues in India and the export move-ment from that country will be pro-hibited as soon as the 15,000,000 bush-els sold a few weeks ago have been shipped. The summary figures still suggest a rather tight wheat situation in the world's suppy.

#### CORN

Corn markets have yet to feel th shock of the heavy movement of new corn which the size of this year's cro promises. Although prices are believ-ed to be down on bedrock, the markets are certain to be rather weak when primary receipts enlarge as they invar-iably do at this season of the year. The industrial demand is below normal for this season of the year, there is no scarcity of cars to prevent a heavy movement and reports from banking conditions in some of the corn-producing states, notably Iowa, indicate that sales must be made rather freely.

their heavy crop moving season is over and they should exhibit relatively

#### greater strength SEEDS

lower than a week ago. Foreign crops are large, tight money discourages buying to hold for higher prices and farm demand will not develop for two Detroit.—Cash No. 3 yellow, new months. Low grain prices are expect-82c; No. 4 yellow, new 77c. Chicago.—No. 2 mixed 75c; No. 2 larger scale than during the last few years.

#### FEEDS

Feedstuff prices continued to weak-en, practically all kinds sharing in the decline. Production of wheat and corn by-products is not large but farm ers have home-grown feeds priced cheaply which they are holding for higher prices and thus are out of the market for commercial feeds. Latest quotations per ton (100-lb bags) in car-lots are: Chicago.-Bran \$36; stand-ard middlings \$36; flour middlings \$42; cottonseed meal, 41 per cent, \$40; stand-\$42; cottonseed meal, 41 per cent, \$40; cottonseed meal, 36 per cent \$36; glu-ten feed \$45; hominy feed \$40; old process oil meal \$50; tankage \$75@85. Detroit.—Bran \$40; standard mid-dlings \$40; flour middlings \$48; coarse corn meal \$36; cracked corn \$38; chop \$26.

#### HAY

The hay markets continue easy, with prices showing little change. Buying remains at low ebb and with open weather prevailing, live stock liquida-tion taking place and other feedstuffs relatively cheaper than hay, the out-look is not especially hopeful. Latest prices per ton in carlots are as fol-lows: Chicago.—No. 1 timothy \$30(a) 32; standard \$28@29; No. 2 timothy \$26@28; No. 3 timothy \$23@26; clover \$22@28; No. 1 to choice alfalfa \$30@ \$22@28; No. 1 to choice analia \$30@ \$34. Detroit.—No. 1 timothy \$26@27; standard \$25@26; light mixed \$25@ 26; No. 2 timothy \$24@25; No. 1 clo-ver mixed \$23@24; No. 1 clover \$22@ 23; rye straw \$14.50@16; wheat and oat straw \$13.50@14.

**BLAND** The Michigan bean market has declined still further and is now at the lowest level of the season. Beans in the dirt are quoted at \$3.50 per 100 pounds and \$4.25 cleaned. The market is the lowest in the country and present quotations put it \$1 below California white beans when transportafornia white beans when transporta-tion costs to consuming markets are considered. Grocers are buying from considered. Grocers are buying from hand to mouth, their experience with sugar having made them cautious. Al-so distress beans from handlers hard hit by the price slump keep coming on the market. After the first of the year when inventories are completed, it is expected that buying will be on a more liberal scale. liberal scale.

BEANS

#### EGGS AND POULTRY

Egg prices have been out of line with other kinds of commodities for weeks. The past few days' demand fell off and declines were recorded in some of the markets. Supplies are below normal but that fact is not com-plete protection when other foods have been marked down so radically. Lat-

est prices were as follows: Chicago.—Eggs, fresh firsts 72@74c; miscellaneous 63@70c. Poultry, spring chickens 24c; hens 19@24c; roosters 18c; ducks 23@27c; geese 23@25c;

turkeys 38. Detroit.—Eggs, fresh candled 68@ 83c. Live poultry, spring chickens 24 @25c; leghorns 20@22c; hens 24@ 25c; small hens 18c; roosters 18c; geese 27c; ducks 32c turkeys 40@42c.

#### BUTTER

The butter market has ruled fairly steady the past week and confidence has been restored to some extent. Buyers are out of stocks in some cases. Danish butter continues to arrive but there is much complaint of mold heard. It is the general opinion that Danish shipments will be lighter from now on. The prospect is for a fairly steady market at around the present level. Ninety-two score butter at New York

### Live Stock Market Service

Markets for December 15.

223	THE COLUMN OF THE		
2	Tuesday.		
C	Best heavy steers	\$9.50@1	1.00
1	Mixed steers and heifers	8.00@	8.75
t	Best handy wt bu steers	7.00@	7.50
÷	Handy light butchers	5.75@	
4	Light butchers	4.75@	
1	Best cows	6.50(a)	
5	Butcher cows	4.50@	5.00
	Common cows	1.000	3.50
3		3.00@	
4	Canners	5.75(2)	
	Choice bulls	4.50@	
ŧ	Bologna bulls		4.25
ť	Stock bulls	2.0000	7.50
6	Feeders		
2	Stockers	5.00@	
5	Milkers and springers\$	65@	90
£	Veal Calves.	1 14 10 10 1	
2	and the second second second second	ad ana	dod .

		veal ve	1140.		18680 11/201000
Market	is	steady	on	good	grades;
ommon v				1 1.000	0@14.00

Best	······································
Others	4.50@11.00
	Hogs.

Market very dull.

Sheep and Lambs. Prime lambs and sheep are 25@50c dull ers

	mgner, others dam	11 FOG 10 00
	Best lambs	\$11.50@12.00
1e	Fair lambs	9.00@10.00
	Light to common	
	Yearlings	6.00@ 8.00
v-	Fair to good sheep	4.00@ 5.00
ts	Culls and common	1.50@ 2.50

#### **CHICAGO**

#### Hogs.

Estimated receipts today are 30.000; holdover 9,423. Market mostly 5c high-er than yesterday's average. Bulk of sales \$9@9.15; tops \$9.25; heavy 250 lbs up medium, good and choice \$8.90 @9.15; medium 200 to 250 lbs medium, good and choice \$8.95@9.15; light 150 to 200 lbs common medium good and ing states, notably lowa, indicate that sales must be made rather freely. OATS Oats will follow the course of the other grains to a large extent, although

Choice \$8.50(95.25. Cattle. Estimated receipts 9,000; most class-es steady; canners weak to 25c lower. Beef steers medium and heavy weight 1100 lbs up choice and prime \$12.50@ 14.50; do medium and good \$8.25@ 12.50; do common at \$7@8.25; light weight 1100 lbs down good and choice 12.50: weight 1100 ibs down good and choice \$9.60@14.25; do common and medium \$6.25@9.60; butcher cattle, heifers, common, medium, good and choice at \$4.40@10.35; cows, common, medium, good and choice \$4.25@9; bulls, bologna and beef \$4.75@8.25; canners and cutters cows and heifers \$2.75@4.25; do canner steers \$3.50@5; veal calves light and handyweight medium, good and choice \$8@10; feeder steers, common, medium, good and choice at 6.25@9; stocker steers, common, me-

Sheep and Lambs.

Estimated receipts today are 15,000. Best fat classes and feeders steady; others dull. Lambs 84 lbs down me-dium, good, choice and prime \$11@ 12.50; do culls and common \$8(0/10.75; spring lambs medium, good, choice and prime \$8(0/10.50; ewes, medium, good and choice \$4.7506; ewes cull and common at \$2.25(0/4.50; breeding ewes full mouths to yearlings \$4.500 6; yearling wethers medium, good and choice \$9.500(11.25). Bred Sows-January 5, A. A kamp, Manchester, Michigan. 12.50; do culls and common \$8@10.75;

#### **BUFFALO**

53½c; Chicago 49c; Philadelphia 53½c per pound; Boston 52c.

#### CHEESE

The quotations on all markets show some decline but are not in line with the country markets as is usual. The markets closed easy and in buyers' favor with fairly liberal stocks of fresh chaose. Undergradge show a small cheese. Undergrades show a small movement at reduced prees. No new export business is reported. POTATOES

The potato markets have been sharply lower during the past week. North-ern f. o. b. shipping markets losing about 15c per 100 pounds and are now quoted at \$1.25@1.48. The carlot mar-ket in Chicago is quoted at \$1.35@1.45 or slightly chore the cancer's lowest or slightly above the season's lowest point. Other jobbing markets show declines of around 25c and are quoted at \$1.35@1.40 per 100 lbs. in bulk. Detroit is paying \$2.75@3 per 150-pound bag.

#### APPLES

Apple markets have been dull dur-ing the past week but prices at f. o. b. markets and in consuming centers have held practically steady. About two-thirds of the northwest crop of boxed apples is said to have been ship-ped out by this time.

DETROIT CITY MARKET Prices are easy and trading light. Apples 60c@\$2; cabbage 40@75c; car-rot 50@75c; onions, dry 75c@\$1; pars-nips 75@90c; potatoes \$1@1.30; eggs 90c@\$1; pork 14@15c. These are wholesale prices.

### STATE FARM BUREAU MARKET REPORT.

Wheat market tone a little better. Local millers are buying wheat only against flour orders. Expect these lo-cal people to be in market shortly, which should stimulate wheat prices which should stimulate wheat prices generally. Exporters not anxious for wheat at present basis. Rye market working upward with exporters bid-ding strongly wth no decided change in future markets. Cash three cents over basis of last week. Michigan feeders will purchase corn shortly. Local supplies very limited. Local oat stocks well cleaned up. Farmers not inclined to sell Government says oats should go higher soon. Hay market continues dull and draggy, due to mild weather in consuming sections. Large quantites could be moved if buyers needs could be constantly met, but farmers are not inclined to sell. January 1 should see stimulation and good shipping demand with better prices. Clover seed a little more active. Good sign, for it is usually rather dull be-fore the holidays. Seed department this week announced prices to cooper-ative organizations and County Formative organizations and County Farm Bureaus for farm bureau brands Nos. 1 and 2. Volume orders are arriving for clover, timothy and alfalfa.

#### VETERINARY.

Indigestion.—The skin of my cow is inclined to become dirty and when her milk stands twenty-four hours it has a bitter taste. The cow is fed ground oats and barley, also clover hay, bean pods, shredded fodder, besides she has access to a stack of barley, oat and wheat straw. H. E. C., Durand, Mich.— Be very thorough in the cleaning, also stocker cows and heifers common, me-expose milking utensils to sunlight, dium, good and choice at \$4.35@6; also do same with separator, if you use western range cattle beef steers, me-one. Clean and disinfect cow stable. do cows and heifers medium, good and choice \$4.60@9.25. Sheen and Lamba the milker, besides the milk should be stored in a clean cool place. Do you promptly cool the milk after milking? I am inclined to believe your cow is healthy, but perhaps her digestion may be faulty. Give her a tablespoon-ful of bicarbonate of soda in each feed. Dentify forgat to alcon ford manyar Don't forget to clean feed manger.

#### COMING LIVE STOCK SALES.

A. Feld-

Kamp, Manchester, Michigan,
Poland-China—Holsteins. — Thursday,
January 6, Hillcrest Farm, Allegan,
Fair Grounds, Allegan, Michigan.
Aberdeen Angus—Michigan Aberdeen
Angus Breeders' Association at M.
A. C., East Lansing, Michigan, January 14, 1921.

#### WOOL

**WOOL** Sales of wool have shown a slight increase recently and there have been repeated expressions of belief that the market was around the low point and preparing for a turn. Boston quotes sales of quarter and three-eighths blood combing territory wools on a clean basis of 45@60c with fine and fine medium territories at 80@85c. A small amount of quarter-blood Ohio wool is reported sold at 32c for choice combing. Efforts to dispose of stocks of manufactured goods have been un-enough that this process should soon be completed, making necessary the lacement of orders for new supplies. However, the stocks of wool are large and the fact that textile mills have been operating so far below capacity for months has increased the quantity been expected to become a large pur-chaser of wool but so far this hope has not been realized. Latest reports the prices are still declining and large percentages of the offerings are with farwn. There is a possibility of equa-ting the American grower by assess-ing a duty sufficient to offset the de izing the American grower by assess-ing a duty sufficient to offset the decline in foreign exchange.

#### NEWS OF THE WEEK.

#### (Continued from page 750).

ably on account of a revolutionary movement in Germany.

Sunday, December 12. Sunday, December 12. ... THE Greek government sends a cruiser and an escort of warships to officially receive former king Con-stantine at Venice.—The postal deficit for the fiscal year will amount to over \$17,000,000, the second largest in the history of the service.—The internal revenue department will send out in-come tax advisors to make a country to county canvas between January 1 and March 15. and March 15.

Monday, December 13. A BRAHAM KITTLE, 114 years old, dies at his home in Detroit.—The business section of Cork, Ireland, is burned with the damage amounting to correct millions of dollars.—Many burned with the damage amounting to several millions of dollars.—Many lives are lost as the result of great landslides occurring around an inac-tive volcano in Chile.—Fighting be-tween striking miners and the militia in the mining districts of West Vir-ginia is reported.—The United States civil service list now totals 691,116 persons.—The Russian soviet govern-ment sends a strong note of protest to ment sends a strong note of protest to Great Britain, France and Italy against their interference in the affairs of Greece.

#### Tuesday, December 14.

Tuesday, December 14. THE federal house of representa-tives votes to repeal most of the wartime laws, while the senate favors the extension of relief to farmers.— The British press reflects the general opinion that the burning of a part of the city of Cork will retard Irish peace. — Diplomatic relations between Hol-land Jueo Stavia have been brokland and Jugo-Slavia have been brok-en off.

WHEAT MARKET SHAPING FOR A TURN.

GRAIN markets continue to fluctu-date in a most surprising manner with all grains selling at a new low price for the season the past week. However, there are increasing signs that the period of violent breaks is about over and that prices have dis-counted practically all the depressing economic and financial factors which have been the dominating influence for so long. The United States Treasury so long. The United States Treasury Department has issued a long state-ment in which they say that the drop in the price of agricultural products is due to world economic causes over which the government has no control and no official acts have tended to aggravate an already bad situation grow-ing out of the world war. It seems certain, however, that when congress convenes carty in December that the nes TY III L will be efforts made to curb unre-stricted short selling of grain and also to place an import duty on Canadian wheat and flour which was partly responsible for starting the wheat mar-tet downward some weeks ago. At the close of the past week Canadian wheat was quoted five to eight cents per bushel above an import basis with Canadian farmers owning practically all of the 18,000,000 bushels in store all of the 18,000,000 bushels in store refusing to sell except at high prices. at Fort William and Port Arthur, and vessel room for 1,500,000 bushels of wheat has been cancelled for shipment

AMERICAN FARM BUREAU FEDER-ATION.

(Continued from page 756).

We denounce as un-American the principle and are opposed to guaranteeing a fixed return to public utilities and railroads on a cost-plus basis; insist that in fixing the value of property of transportation systems that the commercial value of such property should be at least some indication of its real value; protect the action of the Interstate Commerce Commission in fixing the value of such properties at five billion dollars in excess of their commercial value.

Demand of congress amendments to the interstate commerce act as amended by the Esch-Cummins bill as shall preserve the powers of the several states to regulate the rates and practices of carriers relating to local transportation and distribution of cars.

Request the Interstate Commerce Commission to recognize the need for preferential rates on agricultural lime-

stone, rock phosphate and fertilizers. We demand of congress rigid economy in the administration of government and prompt reduction in public expenditure. We especially insist that there shall be no further delay in the demobilization of the vast number of clerks employed to meet war conditions.

Demand simplification of the income tax law. This law should be made so plain that its intent cannot be misunderstood.

Recommend to congress liberal increase in appropriations for eradication of live stock tuberculosis and the pink bollworm.

Request ruling of Federal Trade Commission to stop the Pittsburgh plus plan as a basis for steel prices.





HORSES

31-779

# This Small Town Garage Paid \$10,000 PROFIT IN SIX MONT BECAUSE IT IS MANAGED BY A MAN WHO UNDERSTANDS HIS BUSINESS



This is the garage of Koehler-Werhman Auto Co., of Pulaski, Wis., that did \$93,810 worth of business in six months with a profit of about \$10,000. Mr. Koehler, Manager, is an M. S. A. S. graduate. Read his letter below.

of Koehler's men driving a string of cars from Detroit to Pulaski, Wis. Mr. Koehler is at the head of the line-look him over-just a common ordinary young fellow like the rest of us, only 20 years of age, but with lots of pep and an M.S.A.S. training.

You can start a business of your own just as Koehler did. Very little

KOEHLER-WERHMAN AUTO CO. Authorized Ford Sales & Service Fordson Tractors & Tractor Implements

Pulaski, Wis., November 26, 1920. Michigan State Auto School, 687 Woodward Ave., Detroit, Mich.

bet/ woodward Ave., Detroit, Mich.
Sirs:
I want to say that your school has been the world of good to me. I graduated from the school on April 1, 1919, and on April 1, 1920, just one year from the time of graduation, I was manager and secretary of the Kochler-Wehrman Auto Co., of Pulaski, Wis.
I am running the business now and will say that the M. S. A. S. receives all credit for my position.
To the interest of graduates and prospective students will give you some figures to show the amount of business that we have done.
From April 1st of this year to the 1st of October our total sales were \$93,810.00. This realized a profit of about ten thousand dollars.
We are authorized Ford dealers and are direct from the Milwaukee branch and the profits next year will be much larger.

the Milwaukee branch and the profits next year will be much larger. We have sold fifty-nine new cars and sixty-one second hand cars. We also wholesale quite a bit of Ford parts to about ten garages which gives us a fair profit. Am enclosing a photograph of the garage. This picture was taken early this Spring. We have improved the place quite a bit and expect to build this coming Spring.

the place quite a bit and expect to be a spring. Well, will have to close, but will answer any letters from any one interested in the auto business and can recommend the M S. A. S. I appreciate the way the School has used me, as they have written me letters and keep me well posted on the doings of the school. A Graduate, BEN W. KOEHLER, Mgr. Koehler-Wehrman Auto Co.



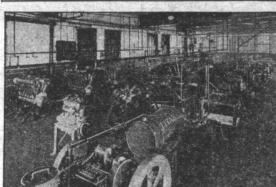
A Corner in M. S. A. S. Electrical Dept. You learn by ac-

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Mr. L. B. Fisher Route No. 7, Box 181 Paducah, Ky. Dear Siri: This will acknowledge your letter of May 1, addressed to the stiention of Mr. Vincent. I would advise you to enter an auto school—as I believe you would get an all-around experience quicker than working either in a Factory or Garage. I understand that the Michigan State Auto School have turned out some very good mea, and I do not believe you would make any mistake in attending this school I you wish to become thoroughly experienced in the automobile business. In this school you would get an opportunity to work on all different kinds of cars, and you would also have instruc-tors who could explain the different parts, etc.

This shows some

PACKARD MOTOR CAR COMPANY J. D. Wilson, Ass't to Vice-President of Engineering



M. S. A. S. Block Test Dept. All Kinds of Motors Are Here.

Let us tell you of the wonderful opportunities in the Auto, Truck and Tractor business. Let us tell you the right way to get a business of your own, one that will bring you \$500 to \$1000 per month. Let us tell you of the thousands and thousands of graduates who are making good. Let us tell you of our factory outlined and factory endorsed course and why Detroit, the heart of the automotive industry, is the logical place for you to learn. Our 124-page catalog FREE on capital is required

and you can always get that if you have the training. Koehler is only one of the thousands of M. S. A. S. graduates who are making good. A few weeks of M. S. A. S. factory-outlined training put Koehler on his feet. It can do the same for you. There are thousands of good locations for garages and sales agencies. Our Graduate Service Department puts you in touch with the factories.



Packard Twin Six and Cadillac 8. You learn on the aris-trocrats as well as well as the flivvers.

TUDAY

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