DETROIT, MICH., SATURDAY, FEBRUARY 26, 1921

EXIT-THE ONE-ROOM SCHOOL

ENTER-The Modern School for Country Boys and Girls-By R. P. Crawford

Editor's

traveled

is the first of a series of

five articles dealing with

consolidated rural schools

written for the Michigan

Farmer. The author has

ten thousand miles study-

ing the best rural schools

in America and gathering

material for these arti-

cles. He is recognized as

an authority on this sub-

Note. - This

approximately

us, but a happy one for others. schools located in large cities. sized by liberal applications of the the only solution of giving the country built. When I visited this school ers are the guests of the town. hickory stick. Instead the boys and boys and girls an adequate education, some months ago, there were two hun- Of course, the church plays an imgirls go to fine up-to-date buildings, every bit as good as their city cousins, ment of consolidated schools. It took Out of this number seventy were en- erected a few years ago at a cost of riding in automobile busses, a thing approximately seventeen years for rolled in high school. Before the con-approximately \$40,000. It is heated by which not so many years ago would Iowa to secure its first seventeen con-solidated school was established there steam, lighted by electricity, and has have been thought impossible.

the consolidated school is a new devel- dred. During the opment would find the progress that last school year aphas been made in many of our more proximately one fortunate states almost incredible and new consolidated indeed difficult to believe. Indiana has school district was more than one thousand of these new formed for every kind of schools, Ohio more than nine day the schools of hundred, Iowa more than four hundred the state were in consolidated schools, either erected or session. In that under construction, and Minnesota state, approximatemore than three hundred, while Color- ly three thousand ado, notwithstanding the mountainous one-room rural character of that state, has more than schools have been one hundred such schools. About fifty closed, and more thousand of the little one-room schools than fifty thousand have been abandoned the country over children are being to make room for the twelve thousand transported every boys and girls receive high school ed- schools. ucations, just as good as the city boys and girls.

T It is a sad farewell for many of tically no cases are consolidated posing country schools to be found any- been made an important celebration,

Those who are acquainted with only It does not necessarily follow that tainly be amazed at many of the mod- in this township is one of its remark- never have trouble finding boarding these consolidated schools are located ern school buildings in Iowa. The first able features. The school house is in places, because the homes are always in town. A very large number of them place that we shall visit will be the use nearly every night in the week for open to them. The story of these othare set right out among the farms. In Orange township community near Wa- some community entertainment or er features of the Orange township a great number of cases the people in terloo, Iowa. Here is found not only meeting. The community library so-community life is told here, because it the tiny villages and the surrounding a fine consolidated school, but also per-ciety meets every Friday and everyone shows what can be accomplished. country have gone together and erect- haps one of the most elaborate country takes part in the program. The Ored a school, thereby securing educa- churches in the United States, and a ange township band of thirty pieces is how good a village school may be, are tional facilities far better than could community life and development that an important organization. The last invited to take a little trip with us to

OOD-BYE to the one-room school, maintained their own schools. In practownship school is one of the most im- school were in operation, has always

district itself em-

from \$50 to \$75 a month.

Community Spirit Important.

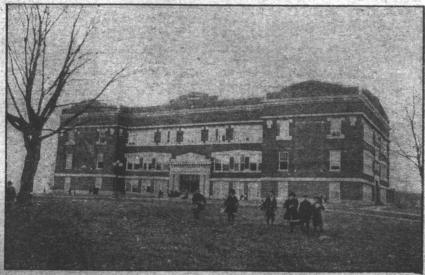
have been obtained if they had each is remarkable. Probably the Orange day of school, even when the district

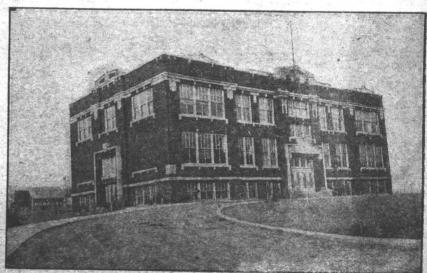
where. It is set well back from the with picnic dinner, games for adults Fifty thousand of the little red and It does not necessarily follow that in roadway with five acres of grounds, and children, and the base ball game. white buildings that once dotted the every case a consolidated school well laid out in front with shrubbery Each fall the harvest picnic is held on landscape of the open country are no should be erected and one-room schools and trees. The school building was the banks of some stream, when the more, or with barred windows suggest abandoned, but in thousands of places erected in 1916 at a cost of \$52,000. men and older boys teach the younger that they no longer are the scenes of in this state and in the surrounding A home for the janitor and a residence boys to swim. Here and there is also readin', writin', and 'rithmetic, empha- states such schools afford practically for the superintendent have since been a community banquet when newcom-

lowa is remarkable in the develop- dred and forty-four students enrolled. portant part in community life. It was solidated schools, but it took only six were ten little country schools with a an air pressure water system with hot Those of us who live in states where years to secure the next three hun- total enrollment of one hundred and and cold water throughout the buildforty. There was ing. There is a well-equipped kitchen, no high school large dining-room, twenty small indiwork offered in the vidual Sunday school rooms and a resttownship either, room where the little children are carand perhaps only ed for during the church service. The fifteen or twenty church has about three hundred memboys would leave bers, and the average attendance at the township each the morning service is about three hunyear for further ed- dred and fifty, and at the evening serucation. The school vices about two hundred.

This township is remarkable in that braces thirty-eight farmers when they retire, instead of sections and twelve moving to town buy a little acreage busses are used for near the church and school and settle transportation. The down there. Along the country road, high school boys one will see a row of fine, modern furnish teams and homes, comparing favorably with any fine, modern buildings, in which these day to these up-to-date consolidated are employed as drivers at salaries in a city, but it is in no sense a town, since there are no stores or places of business. It is simply a little country the little one-room schools would cer- The community spirit that prevails community. The teachers in the school

Readers who would like to know just (Continued on page 259).





This 400-pupil Consolidated School is Every Bit the Equal of Any City Edu- The Orange Township School is Strictly an Open Country Institution and the Center of a Remarkable Community Life.



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DETROIT, FEBRUARY 26, 1921

CURRENT COMMENT

The Future Economic Balance

areas, where the general condition of unemployment is being gradually relieved, but according to current report has not yet reached the western areas which were last to feel the full force of general liquidation.

In this connection it is significant that this note of optimism is most generally voiced by those who have the best opportunities and facilities for a comprehensive economic analysis of the situation. The opinion that business conditions will soon be stabilized and begin to improve is constantly finding more frequent expression in every quarter, and as soon as this opinion becomes general, practical results of this kind are sure to follow. How soon this will occur and how it will affect the business of agriculture is a subject of great interest to every farmer, particularly at this time when plans are being matured for the season's production campaign.

Farm products were first to feel the full effect of the readjustment process, obvious reasons. The season's crops were matured during the early raising the number of farmers' clubs in 1879 and was graduated from the

ucts to be thirty-two per cent above lished four local markets for the dis- er people work with him, the better the pre-war prices which obtained in posal of surplus milk, cream, eggs and they like him."

We bespeak for Mr. Brody the full-while the index price for all commodities is seventy-seven per cent above the pre-war level, and individual ganizer has without question been his tive agencies looking for the development of the University of Michigan, is elected president of Yale University of Indian along the University of Michigan, is elected president of Yale University of Indian along the University of Michigan, is elected president of Yale University of Indian along the University of Michigan, is elected president of Yale University of Indian along the University of Indian along the University of Indian along the University of Indian Ind

goods.

for a narrowing of the spread between ed by holding off a little longer."

figure given for house furnishing greatest decline or from the further reaction of prices which have reached decline of prices for commodities the lowest levels will be most pro-While there is always considerable which have suffered least. The opin-nounced in this movement variation between the index prices of ion of the Harvard committee is exall commodities and the prevailing pressed in the following excerpt from reasonable conclusion that this reacprice of individual commodities, this their late statement: "The heavy liq- tion will be most marked in future difference is always less pronounced uidation which has been forcing down prices for farm products. And if the under normal business conditions than commodity prices is apparently at an conclusions of the Harvard committee in periods of business disturbance and end, but buyers in certain lines believe and the general opinion in business ciradjustment. It is thus logical to look that further concessions are to be gain- cles is correct this reaction may begin

commodity prices with the progress of The logical interpretation of this months. readjustment and the resumption of statement, which we believe fairly repmore normal business conditions. This resents general business opinion is that likely to become better stabilized and movement may be in either one or the general drop in commodity prices at least nearly approach normal durboth of two directions. It may result has been stayed, and that while furthing the present year, which prospect from the advancement of prices for er readjustments will tend to level the warrants the immediate resumption of

Farm Bureau's New Secretary

Executive Committee Selects Mr. Brody

new duties March 1.

was first to feel the stress of general twenty-three cooperative marketing as- Farm Bureau. readjustment and liquidation. It is just sociations, ninety per cent of whom



How the Newly Elected Secretary Looks on Sunday.

stages of the period, speculative hold- in his county from five to twelve; for Michigan Agricultural College with the ing was discouraged by the general the introduction and adoption of a class of 1904. For eleven years thereand urgent necessity for liquidation, by practical scheme of tile draining the after Mr. Brody worked his father's the general restriction of credit and by flat lands of St. Clair county; for the farm and during the last three winters the lessened demand which always ac- launching of a campaign looking to- of this period he served his alma mater companies a general condition of un-ward the elimination of tubercular as extension specialist. He left the

per cent above that level, which is the period, his work in connection with organization.

HE Michigan State Farm Bureau the tile drainage project mentioned has a new secretary. Clark L above, has received the widest pub-Brody, the very efficient and suc- licity. Throughout the state and nacessful agricultural agent of St. Clair tion the story has been told of his succounty, was the choice of the execu- cessful effort to persuade the farmers tive committee. Mr. Brody after care- of the level areas in the county that ful consideration, has accepted the re- their first important act in the proponsibility and will start upon his gram of production is the construction ing industry on the road to normal of an adequate system of tile drains.

No one seems to know of an agriculton agriculton the results from the six hundred and according to recent information, will have after the results from the six hundred and have after the results from the six hundred and have after the results from the six hundred and have after the results from the six hundred and have after the results from the six hundred and have after the results from the six hundred and have after the results from the six hundred and have after the results from the six hundred and have after the results from the six hundred and have after the results from the six hundred and have after the results from the six hundred and have after the results from the six hundred and have after the results from the six hundred and have after the results from the six hundred and have a six hundred a sponsibility and will start upon his gram of production is the construction ing tural leader better qualified to take more acres drained during the past A S the period of re- up the exacting duties and to fill the two years has converted whole neighgresses, a more gen- work of this great organization of ter control. Although an expensive untry-five per cent increase over the preeral and pronounced farmers. Mr. Brody has just finished dertaking the farmers and the county note of optimism is to six years of service as St. Clair coun-leaders have become so convinced of be heard in business ty's agricultural agent. He is largely the value of this work that they have circles. This is especially true in the responsible for the organization of engaged a county tiling engineer to eastern section of the country, which 2,350 St. Clair county farmers into work under the direction of the County

Another activity in which this probeginning to be true in the central were made farm bureau members; for gressive agricultural agent was the moving spirit was the ridding of St. Clair county of tubercular cattle. Out of more than one thousand cows tested in 1920 from five to seven per cent were found to be reactors and were destroyed. To complete this work the farmers of the county are now arranging for an expert tester to test every cow in the county. The Port Huron City Commission has recognized Mr. Brody's work for better milk by requiring that all milk sold in the city be from healthy cows.

> The attitude of the board of supervisors of St. Clair county toward their agricultural agent has been unusually generous. Beginning with an appropriation of \$1,000 the supervisors have shown their appreciation of Mr. Brody's work by each year increasing the appropriation until in 1920 it had reached the sum of \$5,000.

> No person could be in closer sympathy with all phases of practical farm born on a farm in St. Joseph county

work in studying the general trend of about the matter in a business-like mer county agent, and one who work- countries. commodity prices and business activ- way, insisting that each cooperative ed along with him in the State Farm Figures recently compiled and re- and placed on a sound financial basis. Brody is a quiet, rather reserved man Former President-elect Harding's ased by this committee show the These associations now many resident-elect Harding's

Viewed from this standpoint it is a to be apparent during the spring

Certainly, business conditions are commodities which have suffered the wide spread between these prices, the normal activities by the farmers of Michigan and the country. Agriculture is the nation's greatest source of new wealth, the benefits of which will first accrue to the farmers who create it, just as surely as the full burden of readjustment was first felt by them.

News of the Week

Wednesday, February 16.

REPRESENTATIVES of every business factor in the industrial world hereafter select its own governor-gen-S the period of re- up the exacting duties and to fill the two years has converted whole neigh- adjustment pro- difficult position of carrying on the borhoods to the necessity of soil wa- being 2,605,174,000 pounds, or a twen-

Thursday, February 17.

HE United States Senate the Fordney emergency tariff bill by a vote of forty-three to thirty, and the bill now goes back to the house for amendment.—Japan is coveting the new Chinese pert of Hulutao which is being developed by Chinese merchantmen.—March wheat advances 281/4 cents in three weeks.—Michigan re cents in three weeks.—Michigan republican state convention convenes at Detroit, nominating James B. Moore, of Lapeer; Joseph Steere, of Sault Ste. Marie, and Howard Weist, of Lansing, and the supreme court; W. for justices of the supreme court; W. H. Sawyer, of Hillsdale, and Victor M. Gore, of Benton Harbor, for regents of the university; Frank F. Rogers, of Lansing, state highway commissioner; Thomas E. Johnson, of Coldwater, for superintendent of public instruction; Fred A. Jeffers, of Painesdale, member of state board of education; John A. Doelle, of Marquette, and M. B. Mc-Pherson, of Kent county, members of the state board of agriculture.

Friday, February 18.

A N agreement is apparently reached between the United States and Great Britain in the Mesopotamia oil controversy.—The American Farm Bureau Committee of Seventeen votes to recommend the formation of a non-stock, non-profit corporation to be known as the National Sales Agency which will handle the marketing of grain after it leaves the producer.—Improvement of trade with the Orient is life than is the new secretary of the noted from reports of transportation Michigan State Farm Bureau. He was companies.—Twenty states will join with Wisconsin in challenging the right of the Interstate Commerce Commission to regulate state railroad rates under the transportation act.

Saturday, February 19.

LOYD-GEORGE declares House of Commons that the British should not expect Germany to pay all that is being asked of her by the allies.—In six hours the senate passes employment. As a result prices for cattle from the herds of the county—farm in 1915 to take up his work in St.

allies.—In six hours the senate passes agreed these are some of the outstanding Clair county.

Through hard but careful work and the constant devotion of his efforts to depend the constant devotion of his efforts to the constant devotion of his efforts t ed by price figures recently compiled in but lew continues of the fuel to the fullest confidence of all who have Because fifty per cent of her populable a committee on economic research the farmers as thoroughly organized the fullest confidence of all who have Because fifty per cent of her populable maintained by Harvard University, for marketing the products of their come in contact with him. In the to weather the unemployment situation of the product of the products of th which is doing some very significant farms as in St. Clair. Mr. Brody went words of one of his associates, a for- tion better than most other European

Sunday, February 20.

cepts President-elect Harding's of-Figures recently compiled and results and placed on a social instance. There have also been estable to be thirty-two per cent above lished four local markets for the discretization. The better which will permit 354,000 foreigners to

The Agrarian Movement in Canada

What the Organized Farmers Are Doing Across the Border-By John Gladstone Grace

GRICULTURE now promises to become the dominating calling of the twentieth century on this continent. "Get into politics or get out of farming," is the slogan in all the provinces of Canada. Agriculture has no status in any country. History will be searched in vain to find a clear and Martha Washington, a young man recognition on the grounds that this Otherwise you might as well dissolve." show, fought in the northern battalions navy. Such was the rigid standard of is practically true of Washington. Sas- was solved. The basis of an organiza- manifesting itself in the insistence of citizenship laid down during the reigns katchewan is the foremost wheat-pro- tion was formed which today is nation- a Canadian embassy at Washington, of the Georges and Henry VIII. In ducing province in the British Empire, wide in its usefulness and influence, and reserving the right to veto heremore recent times in old Britain, suc- ranking next to Siberia in the grain Mr. Wood is president of the farmers after the appointment of governor-gencessful distillers, brewers, landed gen- lands of the world. Canadian farmers of Alberta province, and many of the erals who are known to harbor impetry and promoters, made up the most realize that our war debt must be paid leaders in the agricultural development rial or jingo leanings. What are the exclusive aristocratic circles.

treaties and tariffs, since the Civil treasury. War. Many of our Canadian governor herds, deer parks, landed estates and of the "Grain Growers' League," and further ceremony went to work as full-holding from speculators the grain land, Scotland and Ireland, of the Clan- prime minister in 1910. Going along London, Washington or Ottawa were the federal house of commons, is to ricards, Devonshires, Lansdownes, Der-through the prairie provinces in a C. never consulted. bys, Greys, Marlboros, and others suck, P. R. special train, a flag in the dispersecutions and land confiscations.

formidable in some sections about thir- or Conservative on election day in the the United States. ty years ago, but faded quickly. The same old way." Granges and the Patrons of Industry est grain-growing and mixed farming market manipulators and the whole Rocky Mountain foothills; gushing oil charter.



could not be classed as a "gentleman" enormous sum of money and the legion H. W. Woods, from Missouri state, unless he belonged to the learned pro- of producers involved, have practically was new in the west then, and young, fessions or enlisted in the army or no voice in the government. The same but he endorsed Crerar. The problem ed "Canada first" sentiment which is from the top six inches of the soil, and of the Canadian West came from Penn- farm-labor-soldier leaders demanding? The United States was probably the not by bankers, brokers, promoters or sylvania, Ohio, Missouri, Minnesota, Better laws for the producers; cooperfirst among the great powers to recog- lobbyists who own administrations Dakota, Kansas, Wisconsin, Michigan, ation in purchasing farm implements nize agriculture in their international while temporarily in charge of the Unlike so many of the foreign ele- and equipment; the abolition of the At its birth the new movement had them trainloads of stock and modern ter rural roads; exercising more care generals, since confederation in 1867, many transplanted American farmers farming implements. They made a de- in the selection of seeds and sires; imwere men of wealth, who owned fine to stand sponsors at the christening posit in the nearest bank, and without proved facilities for marketing or withmany saloons in London. Lord Duf- like a patch quilt it soon covered the fledged citizens. The late James J. crop and live stock for export; cooperferin had great admiration for the provinces of Manitoba, Saskatchewan Hill, of St. Paul, who was Ontario ation in household work, such as wash-American republic and when viceroy and Alberta. The eastern statesmen born, was heard at his best when he ing, milking, baking and a general of the Dominion in the '70's, had al- neither at Ottawa nor Washington recalled the relations between the lightening of the burdens of the farmmost decided either to go into mixed heeded the farmers' organization. This troops of Minnesota and Manitoba ers' wives and daughters. These are farming in Ohio, or fruit growing in I may say, is made clear by the late when they exchanged visits about fair only some of the reforms, but the chief The great estates in Eng- Sir Wilfred Laurier's attitude while time, after harvest, in the old days. aim of the new progressive party in

can be traced to the days of religions tance was the signal to stop to hear a political life of the new provinces of tion surrendered after being returned delegation. Mr. Tom King, the famous Scotch, Irish and English extraction, in 1917, and which is still in control, is The rapid growth and achievements Toronto journalist and nephew of Gen- but the next house of commons of Ot- dislodged and banished as a pirate and of the agrarian movement in Canada eral Sherman, who was Sir Wilfred's tawa will have a good-sized contingent war profiteer. Hon. T. A. Crerar, M. have no precedent on two continents. closest personal friend, would call out: of transplanted American farmers who P., of Manitoba, is the accredited fed-Old Europe can point to kingdoms be- "Another grain growers' petition, and will be nominated by the agricultural eral leader of the farmers and will be ing swept by a brilliant personality or another speech, Sir Wilfred." The aged constituencies of Saskatchewan, Al- prime minister of the Dominion. a popular war cry, but they are no chieftain and the whole party joined berta, Manitoba and British Columbia

in Canada loomed large on the political the young school teacher, Tommy Cre- younger school are given a preference. of peace, I believe all patriotic Canaestablished fact that four of the larg- farm conventions the grain brokers, sources-vast coal areas along the industrial development with a new

wells; timber and water powers. They argue, for instance, that it was a continental misfortune that the Pennsylvania coal fields were not appropriated by the state or nation when first discovered. The laws, customs, climate and traditions of both countries were so similar that the settlers from the definition or recognition of the class provinces or states of the Dominion plant of middlemen were there with great republic who took up land were which cultivates the soil. Denmark, today are successfully governed by the bells on. In ringing tones young Crerar never strangers. In the Civil War in Belgium and Britain are breeders and cultivators of the soil. Over seven bil- told the convention that the farmers the early '60's the Canadians, disreexporters of stock, but these countries lion dollars is the estimated capital in- were only wasting their time. "You garding British sympathies with the do not class with Russia, the United vested in agriculture in Canada. The must resolve to be farmers on election south, were strongly allied with Lin-States, France or Canada as grain- progressive party-farmer, labor and day, as well as the other three hun- coln, and forty-five thousand men, growing nations. In the days of George soldier-base their claim to national dred and sixty-four days of the year, chiefly of Irish extration, the records

Underlying the agrarian movement in this Dominion is a strongly developments, the Americans brought with middleman in feeding the masses; betsee that the "invisible government" to Ontario dominates the official and which the Borden Union administra-

Our only war heroes are our private parallel. The populists of the western in the laugh. Premier Laurier would provinces. In the provincial legis-soldiers. The Canadian publicity bustates of the American nation in 1893, say: "These grain growers are very latures elected within the past few reau at New York, acting under inand the free silver parties, both looked persistent, but they will vote Liberal months are several former citizens of structions from the regency at Ottawa, and the press propaganda, are tireless In the county and municipal bodies in their efforts to make Americans be-That was before the farmers found of the Canadian West the Yanks of the lieve otherwise. With the restoration horizon in 1893-4, but they never got rar, who gave up the classroom to re- They are all advocates of the state or dians share the view that we should anywhere. It is not a prophecy but an turn to his father's farm. At the big provinces controlling the natural re- enter upon a new international era of

Michigan's Efficient and Progressive County Agricultural Agents



Reading Left to Right.—C. L. Drake, Antrim; Kris P. Bemis, Mason; R. L. Olds, Kalamazoo; V. C. Vaughan, Leelenau; J. P. Johnson, Alger; O. I. Gregg, Wayne; C. B. Cook, Oakland; Stanley F. Wellman, Lapeer; L. V. Benjamin, Baraga; H. V. Kittle, Clinton; F. S. Dunks, Livingston; William Murphy, Macomb; J. V. Sheep Shiawassee; A. J. Hutchins, St. Joseph; Arthur C. Lytle, Otsego; E. S. Brewer, Presque Isle; C. P. Milham, Ottawa; H. E. Dennison, Shiawassee; L. T. Pickford, Oceana; H. S. Osler, Washtenaw; Frank Bennett, Barry; C. O. T. Scheetz, Alpena; E. E. Twing, Kalkaska; C. M. Kidman, Cass; Wm. F. Johnston, Wexford; E. L. Kunze, Chippewa; Alex. McVittie, Tuscola; G. Carr, Kent.



Reading from Left to Right.—Ralph Carr, Lenawee; Clayton Cook, Gratiot; M. C. Thomas, Monroe; P. C. Jamieson, Calhoun; C. L. Brody, St. Clair; C. H. Knopf, Manistee; S. S. Smith, Genesee; Mr. Cavanaugh, Sanilac; Karl H. Miller, Dickinson; Roy E. Decker, Eaton; J. D. Martin, Sanilac; Irving Kirshman, Menominee; L. B. Walker, Marquette; C. E. Gunderson, Gogebic; C. V. Ballard, Jackson; Alex. McVittie, Tuscola; L. Kraker, Benzie; Clair Taylor, Newaygo; C. W. Wing, Charlevoix; Alfred Bentall, Allegan; P. H. Smith, Missaukee; C. P. Pressley, Schoolcraft.

New Members for Board of Agriculture

Electorate Will Undoubtedly Choose These Men At Spring Election

JOHN A. DOELLE.

a constructive worker in the cause of poration lawyer interested personally better education and agriculture? How is he regarded in the upper peninsula?

Mr. Doelle learned agriculture in the most practical school of agriculture that the state possesses-a Michigan farm. He was born on a farm near Yale in St. Clair county, just long enough ago to place him now in the prime of life. He helped clear that farm, when yet a mere boy, and he followed the plow, swung the ax, did the chores and whatever else belongs to life on a Michigan farm in the pioneer-

After his graduation from the University of Michigan, a score of years ago, Mr. Doelle followed the profession of teaching. I say "profession," for he made teaching the serious business of life. He believed in it and worked at it with all the energy that belongs to him-and Mr. Doelle is always a very energetic man.

His first school job was at Benton Harbor as high school principal. Then he took the long jump to Houghton in the copper country, where he soon became superintendent of schools. The in agriculture and a member of the the strongest in the state. As an edu- history of the state. were called for.

known Otter Lake Agricultural School, full opportunity for investigating and Mr. Carr, Kent's agricultural agent, tive committee, was appointed secrethe parent school of some thirty simi- experimenting in relation to the nat. Mr. McPherson is a very strong advo- tary pro-tem of the Michigan State lar schools now established in Michi- ural resources and agricultural possi- cate of Red Rock wheat. gan. The building had the construct bilities of the upper peninsula. He Besides being a successful farmer

in the better sort of city schools- in it. Not everything which he has public affairs. For several years back HE Michigan Farmer has asked lavaroties, laboratory apparatus, and the bureau under his leadership has board of supervisors and in that capame to give a sketch of John A. hygienic surroundings. It also stood promoted every promising develop- city has championed the rights of the Doelle, nominated for member on a tract of forty acres adapted to mental idea, and it is quite likely that rural folks on a county board with a ship on the State Board of Agriculture field work in agriculture, and much of the district owes the newly aroused very large city representation. His at the republican convention in Detroit it was eventually put to this use. This public interest in its possibilities to sympathies are broad. He is at home on February 17. I suppose that what school has wrought a revolution in Mr. Doelle's tireless efforts. the readers of the Michigan Farmer rural conditions at Otter Lake. What Mr. Doelle seemingly is tireless. He the ability and the courage to stand by will particularly wish to know is the was good for Otter Lake seemed good is the best illustration of the human his convictions. significance of Mr. Doelle's nomination for the rest of the state, and since dynamo that I know of. He is particuin this state equivalent to election— such schools are performing a service larly likely to be working when and well have confidence in his ability and to the Michigan Agricultural College in the cause of improving rural condi- where most men take a rest. At believe he will make a valuable man and to Michigan agriculture. Does he tions and agriculture to the benefit of Houghton we were quite sure that, if on the board to which he will be electpossess a first-hand knowledge of the state as a whole, it was deemed the day were particularly disagreea ed, without doubt, at the April elecfarming and of school methods and well to encourage their erection gener- ble, Mr. Doelle would choose that oc- tion. Those functions of the college problems? What will be his attitude ally throughout the state by securing casion for the long sixteen miles to relating directly to practical agricultowards the Agricultural College and provision for state aid. Mr. Doelle, the Otter Lake school for a visit of ture will receive his very closest atthe other members of the State Board with the assistance of Mr. L. M. Geis- inspection. Mr. Doelle believes in not tention. of Agriculture? What kind of a per- mar, agricultural agent of Houghton trusting to hearsay in regard to matsonality has he? Is he a politician or county, and of Mr. J. G. Stone, a cor- ters entrusted to his charge.



Northern Michigan's Nominee for Agriculture Board.

Portage township school system which township board of education, drafted centers at Houghton, covers a district the law which, with amendments, is containing one hundred and seventeen now the statute under which some square miles, served by thirteen sep-thirty rural consolidated agricultural arate school buildings under one man-schools have been established in Michagement. This is a township school igan. I had knowledge of the proposal system, quite characteristic of the before it was presented to the legislanorthern peninsula of Michigan, and it ture of 1917, and I can say that not would be well if it were more charac- many people besides Mr. Doelle, had teristic of the southern peninsula also. faith in it or took it seriously. Few, The district comprised an aristocratic including the then superintendent of residential section on Portage Lake, public instruction, believed it would several mining "locations" chiefly pop- pass; but the Grange got behind it, ulated by un-Americanized Finns. Dur- and it went through and surprised ing Mr. Doelle's superintendency the most people by instantly winning favor district adopted many progressive in the rural portions of the state. It ideas in education, such as free text- required some amendment at the hands books, domestic science and manual of the experts in the department of

find and then meddle as little as pos- manifestly was becoming more and members of this body. ity was manifested, that resignations sources committee in the upper penin. Rapids Business College. Near the southern extremity of his work ceased soon after the armistice, tended with unusual success. On the ets and auto robes. district dwelt the Otter Lake settle- and, the secretaryship of the Upper two hundred and twenty acres of land ments of Finnish farmers. Its agricul- Peninsula Development Bureau becom- which he owns and operates, the protural methods were primitive. In their ing vacant, Mr. Doelle was appointed duction of tree fruits and pedigreed midst the school district, under Mr. to the position which he still holds. grains has been carried to a high demidst the school district, under Mr. to the position which he still holds, grains has been carried to a high de-Doelle's leadership, erected the well- This position has afforded Mr. Doelle gree of perfection and according to known Otter Lake Agricultural School, full encertunity for investigating and Mr. Carr. Kent's agricultural school full encertunity for investigating and Mr. Carr. Kent's agricultural school full encertunity for investigating and Mr. Carr. Kent's agricultural school full encertunity for investigating and Mr. Carr. Kent's agricultural school full encertunity for investigating and Mr. Carr. Kent's agricultural school full encertunity for investigating and Mr. Carr. Kent's agricultural school full encertunity for investigating and Mr. Carr. Kent's agricultural school full encertunity for investigating and Mr. Carr. Kent's agricultural school full encertunity for investigating and Mr. Carr. Kent's agricultural school full encertural school full encertunity for investigating and Mr. Carr. Kent's agricultural school full encertunity for investigating and Mr. Carr. Kent's agricultural school full encertunity for investigating and Mr. Carr. Kent's agricultural school full encertunity for investigating and Mr. Carr. Kent's agricultural school full encertunity for investigating and Mr. Carr. Kent's agricultural school full encertunity for investigating and Mr. Carr. Kent's agricultural school full encertural schoo

As a member of the State Board of Agriculture, he will inform himself A STATE income tax to supplant the fully as to its needs and performance. A present intangible tax on bonds Yet he is not the meddlesome, hard- and mortgages is favored by ninetydriving, ruthless executive. After four one per cent of County Farm Bureau years of employment under Mr. Doelle, officers in fifty-two counties making re-I do not know any master I would rath- ply to the State Farm Bureau questioner serve. He is extremely sympathetic naire on that proposition. The farm towards all who are associated with bureau stated in its questionnaire that him and extremely anxious to be of Governor Groesbeck has informed the service himself. He has the spirit of legislature that real estate was paying cooperation in a very high degree, and eighty per cent of the state taxes and in no sense does he seek to dominate. that personal property paid but twenty He is very much alive, however, and per cent. Proponents of the state inif he can do anything to vitalize the come tax plan argue that the present work of the college, make no mistake, intangibles tax is easy to evade and

His interest in Michigan agriculture

is freer from purely selfish motives or Department. who is personally less corruptible. and for agriculture in Michigan.-C.

M. B. McPHERSON.

training, employed busses to bring the public instruction, but since its re. state republican convention at Detroit tural shipments into the south. pupils living at a distance to school, enactment in 1919, it has taken its was M. B. McPherson, of Vergennes and built up a personnel of teachers place as one of the most constructive township in eastern Kent county. As accorded the stop-over privilege on cator, Mr. Doelle's principle was, to While engaged in building up his ally well qualified to discharge the im. accorded this privilege secure the best talent that he could "pet" school at Otter Lake, Mr. Doelle portant duties incumbent upon the

tion and equipment usually found only loves his work and believes heartily he has given considerable attention to tive committee.

electric lights, flowing water, modern tried out has proven successful, but he has represented his township on the among all classes of people and has

Those who know Mr. McPherson

LATEST FARM BUREAU NEWS.

is evaded.

The Michigan Hardwood Association is not confined to the upper peninsula. has appointed a committee of three, His early career and present associa- headed by M. L. Saunders, of Cadillac, tions assure concern for the whole to work with the Michigan State Farm lower state, but he is particularly anx- Bureau in effecting corrective legislaious to have the college function for tion with respect to Michigan timber the development of northern agricullands. A yearly tax based on the bare ture, without curtailing its present land with a deferred tax on the timber work for the southern counties. He when it is marketed is favored. The has had to undertake experimental present taxation system taxes the timwork that properly belongs to the up- ber each year, a condition which causper peninsula station at Chatham. He es the lumbermen to lumber off their is deeply interested in the state soil holdings as rapidly as possible, bringsurvey and classification, and the de- ing about the evils of overproduction velopment of our cut-over lands, in and an undue depletion of the state's land colonization and rural credits. supply of lumber, according to F. H. I know of no man in public life who Sanford, of the Farm Bureau Forestry

Inequalities in freight rates between That he should become one of the six Michigan and southeastern territory members of the State Board of Agri- and those between eastern and southculture is well, both for the college eastern territory, said to give eastern agricultural shippers an advantage over Michigan producers shipping into the south will be removed, says the State Farm Bureau Traffic Department HE second member nominated in reporting that the railroads have for a position on the State Board agreed to make concessions and preof Agriculture by the Michigan part new rates on middle west agricul-

Shipments of seed may possibly be that was freely conceded to be one of pieces of agricultural legislation in the with Mr. Doelle, this nomination means transit freight, says the Farm Bureau election—the election of a man unusu. Traffic Department. Seed has not been

Manufacturers are absorbing much wool from the Michigan State Farm sible, leaving the teacher free to make more interested in the problems of the or break, being answerable for results upper peninsula agriculture and devel.

Mr. McPherson does not need to be Bureau wool pool. Sales made recent introduced to things agriculturally for ly bring the sales total to approximateonly. Strong teachers liked his atti- opment. In 1917, he relinquished his he is a real farmer, having been born ly a million pounds. Of the remaining tude. Weak teachers were encouraged superintendency of the Portage town. forty-four years ago on the farm he is 2,500,000 pounds over a million pounds to do better, and it was only when on ship schools, to take active charge of now working. He is a graduate of the has been graded. The grading work rare occasions that hopeless incapac- the work of the war industries re. Lowell High School and of the Grand is progressing at the rate of 20,000 pounds a day. The farm bureau now sula, with office at Ishpeming. This His efforts at farming have been at has two factories manufacturing blank-

A CORRECTION.

Farm Bureau. The word "former" should have been omitted, since Mr. Rogers is still a member of the execu-



Here Two of the Old One-room School Buildings Are Used as Homes for the Janitor and Superintendent.

Exit-One-Room School

(Continued from first page). schools were abandoned.

el house-keeping suite consisting of seem to be finding it out. science departments. There are also amount of money. We shall visit two four recitation rooms on this floor. The such schools. time.

school building is equipped as well as ber of others weather without getting wet.

Cost of Running Schools.

study of the Orange township and the the other side of Waterloo, Iowa, and Jesup schools just mentioned. He first visit the consolidated school in the vil- found that the cost of one hour of lage of Jesup. It is an unusually fine schooling under the immediate direcbuilding, the total cost of which, in-tion of a teacher in the one hundred cluding building, ground, and equip-rural schools of Black Hawk county ment, was \$110,000. Here there are was twenty-sewen cents per pupil per about four hundred pupils in attend- hour. In the Orange township school ance, half coming from the country and the cost was eighteen cents per pupil half from the village. Approximately per hour, and the Jesup school twentyforty-eight sections are embraced in four cents. The tax levy for the runthis consolidation and eleven-one-room ning expenses of the Jesup school was twenty-three mills and for the Orange The school grounds embrace approx- township school 23.3 mills. The tax imately eight acres, furnishing a splen-levy for the running expenses of the did setting of grass and trees for the one hundred one-room schools in that school building. The building itself county averaged 11.6 mills, while the has an extreme length of one hundred levy for the Waterloo city school was and fifty-nine feet, and a depth of nine- 32.2 mills. Consequently it will be seen ty-eight feet. A very noticeable fea- that the consolidated schools cost more ture is the wide corridors approximate- money than the one-room school, but ly sixteen feet wide. The building has are really cheaper when one takes into three floors, the lowest floor being consideration what one gets for his nearly level with the ground. The first money. Even at that, the country peofloor takes care of the two lower ple get off with a smaller tax than in grades, the manual training depart- the city. If a farmer was offered twenment, the gymnasium, the shower ty acres of stump-covered, marshy baths and locker rooms, and a lunch land for \$1,000, and twenty acres of room off the gymnasium. On the main the best land in the world for \$2,000, floor are grade rooms, and quarters for he would probably buy the latter, and the agricultural department and a sew- call it a bargain. The same thing is ing room. On the third floor is a mod- true with schools, and Iowa farmers

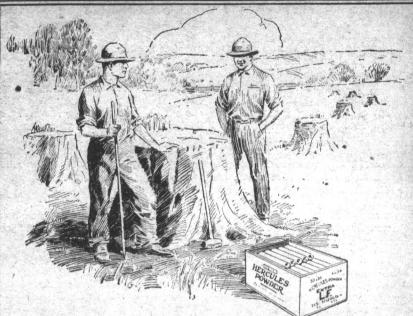
kitchen, dining-room and bedroom. However, just because the schools There is a tile bathroom off of the we have described are elaborate and bedroom. The dining-room has a fire- represent a good-sized investment, it place in it. The kitchen is equipped does not necessarily follow that all with a large gas range and a built-in consolidated schools have to be large refrigerator. There is also a dumb- and imposing buildings. There are a waiter running to the lowest floor so number of splendid examples of counthat some things may be cooked up- try schools in the state of Iowa where stairs and sent down to the lunch good types of brick buildings haive room. The idea here is to give girls been erected in the open country at a practical experience in keeping up a cost of \$20,000 to \$25,000. These home of their own. On this floor is schools are especially desirable where also a suite of rooms for the various it is not advisable to tie up a large

school is provided with a good auditor- Five miles north of the town of Alta, ium, opening out into the corridors, Iowa, is the Fairview consolidated and as many as six hundred and fifty school. Buena Vista county, in which people have been accommodated at one this school is located, has numerous splendid consolidated schools, and this In fact, one might say that this school is only representative of a num-

any city building in every particular. In fact, approximately three-fourths There are telephones connecting the of this county is consolidated. The office with every room, a large vacuum Fairview school is a good type of small cleaning plant in the basement, and a open-country consolidated school. Thirclock system with clocks in every ty-four sections are embraced in the room operated by one central clock, new district and ten or eleven schools Outside the building there is a covered were abandoned in 1915 when this dreway so that the children can be school was built. There are approxiunloaded from the busses in stormy mately one hundred students enrolled in the school and about a fifth of these are in the high school. The building, Professor Macy Campbell, of the a small two-story structure, cost about Iowa State Teachers' College at Cedar \$25,000. On the first floor are a large Falls, completed a very interesting assembly room, domestic science room,



Children Leaving for Home After a Worth-while School Day; Horse-drawn Busses Are Used Here.



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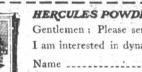
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and rooms for manual training and ag- week to electric wiring. Perhaps a trict must have sixteen sections. One- ed when the people really decide that the five teachers free of charge. The the course.

extra work during the winter months. school was the moving in of two of the where it is proposed to consolidate other article by Mr. Crawford, will appuring one winter, for instance, a old school houses to serve—after being with a village, and not where the proper in an early issue. This article week was devoted to traction engines, remodeled—as homes for the teachers posed district is entirely rural.

I lowa's record with the consolidated way in which state funds are made way er to stock feeding, and still another In Iowa a consolidated school dis- school shows what can be accomplish- available for these schools.

between \$12,000 and \$15,000 a year. dated school in Iowa is the Okoboji board of education. The law then pro- the future some of the consolidated The cost of operating the seven bus consolidated school near Milford. This vides that an election shall be called schools will eclipse anything to be routes is between \$650 and \$700 per school has about one hundred and six- after the preliminaries have been de- found in our cities as far as the school ty pupils, with a third of them in the cided upon. Village and country peo- plants are concerned. Today one finds A unique feature of this school is a high school. The cost of this school ple vote separately and if a majority many of the school buildings far in adthree months' short course in the win- was \$25,000 and the cost of mainte- vote is not secured in both village and vance of those in any neighboring city. ter for farmers and farm boys who nance per year is about \$12,500. A country, the consolidation cannot take have left school and desire to do some unique feature in connection with this place. Of course, this applies only

riculture. On the second floor are five week might also be devoted to veteri- third of the voters in the proposed dis- they want better schools. These new classrooms. The building is heated nary medicine. Sometimes a man is trict may file a petition with the coun-consolidated schools in the villages with steam and a pressure water sys- hired for the short course, but last ty superintendent asking for the con- and open country of lowa today resemtem is provided. Near the school is an year an instructor was sent from the solidation. Objections may also be ble the big city schools that a few eight-room modern home provided for Iowa State College for each week of filed with the same officer. Those find- years ago were pointed out as being ing fault with the county superintend- the model schools of the nation. In expenses of running this school are Another good open-country consoli- ent may make an appeal to the county fact, it would not seem strange that in

("Subsidizing the Rural School," an-

American Farm Bureau Will Sell Grain

To Handle Through a Non-stock Non-profit Concern

the Farmers' Marketing Committee of financing grain movement. . Seventeen at its meeting at Kansas crop through the new channel.

will be organized on the non-stock, time that they do change. through the usual channels for the ing an elevator.

of the United States through a ing and conditioning. A finance cor- years. The local elevator company can national, farmer-controlled sales poration will issue debentures based purchase its members' grain direct for the plan is expected to achieve: association, were adopted last week by on warehouse receipts to assist in resale, it can ship it for them on con-

The existing system of farmers' ele- cally by kind and grade. City. This plan, which is the result of vators will be made an integral part five months' intensive study of cooper- of the new system. The only require- contract with the national sales asso- fluctuations in price, and greatly lesative marketing by the committee, will ments are that these elevators be co- ciation to sell all their surplus grain sen variation in price from season to now go to the various farmers' organ- operative, the stockholders be mem- through it for a period of five years, season. izations of the grain belt for their ap- bers of the national sales association, They can ship this grain on consignproval. In the meantime a special or- and that only grain producers can be ment, in which case the sales associa- tralized selling agency which will have ganization committee is making plans permitted to hold stock. Farmers' ele- tion will simply act as a commission the fullest possible information about to put the new grain marketing sys- vator companies that do not now meet house, or they can pool with one or world conditions affecting supply and tem into effect. The committee expects these requirements will be given a rea- more other local elevator companies. demand. to be able to market part of the 1921 sonable time to change their form of In the latter case the sales association organization, and even after that time will provide funds to make advances plus through one channel. The national grain sales association will be taken into the organization any to the growers, and will take title to 5. Eliminate waste and excessive

actual grain producers, and it will be company meeting these requirements, grain is disposed of the entire amount controlled by them through a board of local members of the national sales as-received, less overhead costs, will be controlled, for marketing grain in an directors. Under the control of the sociation will be organized into a grain paid to the local elevator company for orderly manner. sales association will be several sub- growers' association, which will pro- distribution to its members. sidiary corporations. Various sales vide for handling and loading their companies will be established to hold grain, either by contract with a local tional sales association will be the star by controlling exports, and by opening seats on grain exchanges and sell grain elevator company, or by buying or leas-tistical department. It will collect and new outlets for surplus grain at

LANS for handling the grain crops vide facilities for grain storage, clean- surplus grain to it for a period of five intelligently, which they lack now, signment, or it can pool all grain lo- regulating available daily supplies to

The local elevator companies will the grain, disposing of it when and costs in grain distribution by handling non-profit basis. Its members will be Where there is no local elevator where it sees fit. When the pooled grain through one central sales agency.

present. An export corporation will Growers will contract with the coop- lating to supply of grain and prospec- to the net price received by the farmer find foreign outlets for surplus grain, erative elevator company or grain tive demand. Thus farmers will have without any material increase in the warehousing corporation will pro- growers' association to deliver their information on which to market grain price to the consumer.

Following are the principal results

1. Stabilize the movement of grain, the daily demand. .

2. Prevent or greatly reduce daily

3. Meet organized buying with a cen-

4. Handling all the exportable sur-

6. Provide adequate capital, farmer-

7. Eliminate waste and excessive An important department of the na- costs by regulating grain movement, interpret complete world statistics re- home and abroad, add substantially

What Is Happening At M. A

crop production work, to which were inspected for certification. the excellence of their exhibits at the this section of the state by including and Schoolcraft. one of its residents on the board of

ond on Wolverine oats.

Potato growers of Cloverland also East Lansing. In all cases it was evi- cent more than ever before. dent the growers had been very care-

The Whitney farms, of Whitney, furnished a very fine exhibit of the Russet Rural, or Late Petoskey. These potatoes were remarkably uniform in size and shape and were of excellent color. John Norman, L. L. Malloy and

peninsula farmers in improved of the Green Mountain variety that freshmen is the smallest in history, Nichols, of Pittsford; second vice-pres-

During the last year approximately potato and crop shows at M. A. C. in five thousand bushels of potatoes were horse is again coming into his own. kins, of Detroit; secretary-treasurer, connection with Farmers' Week bears certified, practically all of them Green Now that the first wave of enthusiasm Prof. R. A. Runnells, of East Lansing; witness, has caused the Michigan Crop Mountain. Counties that led in the for the tractor as the "beast of all directors, Dr. E. T. Hallman, of East Improvement Association to recognize work were Baraga, Delta, Mackinaw work" has passed, farmers are settling Lansing; F. M. Blatchford, of Bright-

directors-Veryl Gormely, Newberry. the veterinary profession in Michigan farming system. It has been demon- Gohn, of St. Johns; Dr. G. D. Gibson, Upper peninsula farmers winning than it ever held in the past, it was strated that the tractor is not profit of Adrian.-Henshaw. prizes at the Michigan Crop Improve- indicated at the annual meeting of the able on farms of less than two hundred ment show were Murphy & Gormely, Michigan State Veterinary Medical As- and fifty acres, it was said. Newberry, first in Rosen rye; W. B. sociation held at M. A. C. from Febru-Stevens, Newberry, fourth on Rosen ary 8 to 11. Something of the optimis- cal. Out-of-state speakers included Dr. rye, and John Dunbar, Rudyard, sec- tic spirit prevailing may be drawn David S. White, of Columbus, Ohio, from the fact that the meeting was at- president of the American Veterinary tended by one hundred and fifty dele- Medical Association and deep showed their products to advantage at gates and their wives, fully fifty per veterinary college at Ohio State Uni- wool warehouse company in Chicago

Although the doctoring of horses has Lake Geneva, Wis. ful in their selection. C. R. Millar, of declined, there is a continually widen. A tuberculosis conference was held as they had in the preceding year. The Manistique, exhibited samples of cer- ing opportunity in the treatment of cat- in connection, the state and national four warehouses owned by this comtified potatoes of the Russet Rural and tle, and in fact, veterinarians today departments of animal industry and pany were the first wool warehouses Sir Walter Raleigh varieties. He also are turning their attention more to the veterinary department of M. A. C. licensed under the United States warefurnished samples of Woodbury White ward cattle than horses. It was pre-cooperating. Rose, Bliss Triumph and Russet Bur. dicted that the situation existing at M. Officers elected for the coming year say that their increased business is

will not continue to exist long.

down to a realization of the place the on; Dr. E. B. Cavell, of Northville: Dr. The future promises a wider field for draft horse must hold in the Michigan A. McKercher, of Lansing; Dr. H. M.

Most of the addresses were techni-

ECENT advancement of upper Alphons Verschure supplied samples the country, the number of veterinary Hastings; first vice-president, Dr. A. Z. ident, Dr. B. J. Killham, of Adrian: At the same time it was reported the third vice-president, H. Preston Hos-

FEDERAL WAREHOUSE ACT SUC-CESSFUL.

THE Bureau of Markets is greatly encouraged over the success of the the federal warehouse act versity, and Dr. T. H. Ferguson, of report that they received 33,000 consignments in 1920, six times as many house act, and the company officials A. C., where, as in all other colleges of were: President, Dr. B. A. Perry, of largely a result of this. They feel that the department's approval establishes business confidence.

Dirt and filth taken into the stomach along with feed, impair digestion and reduce the gain, also affecting the appetite and general health of the pig.



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GRAND RAPIDS COLON C. LILLIE, President

MICHIGAN

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By James N. McBride

Chairman Wool Marketing Committee of the American Farm Bureau Federation

is used at home.

over 12,000,000 pounds.

range have probably been reached in States would have become stable. sheep production, and the farm flock About the same results would now is the promise of dependability in con- be reached by applying the percentage tinued supply.

calculation

With the close relations of the great per cent to the wear of his clothes. wool-producing sections of the world to Great Britain and their enormous war debts public and private, the United States tariff schedules on wool can not be permanently made. It is doubtful if parity of exchange can be established for several years, hence the wisdom of expert knowledge is minimized. To meet these conditions on the ground, wool buying houses are sending their representatives to Australia and New Zealand to act quickly and with exact knowledge. Also the wool

The first move in this great chess a tariff schedule that will meet the flat rate of duty per pound would be a constant menace and invitation to inwhich is just the weapon foreign competitors will use to lessen the import duties.

The extended research made by the finished condition because they are not United States Tariff Commission was doing well in a muddy feed lot.

HE sheep industry of the United the agreement to use forty-eight per States is the most hopeful of cent as the wool cost based on annual those whose conditions today sheep maintenance. For example, In-are in the midst of disaster. We are diana wool cost would be \$.525 and Illiexporters of grain, beef and pork, and nois \$.534. Now to apply this new the dairy industry is dependent to a type of advalorem duties based on wool certain extent upon foreign markets. production costs in the United States Cotton must be exported, while wool is really the most scientific approach to equalize difference in labor and ex-Our normal wool production is ap-change costs that has ever been made proximately 282,000,000 pounds and in the application of protective duties. our importations in 1920 were in ex- The Federal Tariff Commission would cess of 427,000,000 pounds. At the each year determine the base, viz., proclose of the year these later figures duction costs, and then apply the cowould probably require some additions, efficient of equalization. For example, as the difference in exchange and as- the London price of Australian fines surance of a duty on wool after the would be forty-two cents-United election in November stimulated im States money—and the American ports. November imports alone were standard cost of production determined by the Tariff Commission was six-The sheep owner in the United ty-two cents f. o. b. Boston, then the States then has an assurance of a con- duty would be twenty cents. From an dition not vouchsafed to other farm administrative standpoint all wool products, viz: a duty on imports and would have to be on a classification only about fifty per cent of production agreed upon or determined by a board at home. In addition to this the best of wool men. This method would have estimates of sheep decrease is about its limitations and might become ap-2,000,000 over the high water mark in plicable after a period of several years, this country. The possibilities of the or when production in the United

of duty to make up the difference be-The work done by the Extension tween the present market price of Service in Indiana covering approxi- three-eighths Ohio staple, viz., fifty-two mately one thousand sheep in twenty or fifty-three cents. However, another flocks in 1919 shows the cost of keep- year this base would have disappeared. ing sheep per year to be \$8.64, average The proposed plan is suggested for a fleece 7.9 pounds, and applying the period of three years, or until ex-United States tariff commission basis change becomes stable. Today the difto secure the wool cost would be 52.5 ference in exchange is a bounty on cents per pound. These figures are wool imports, and considering that reasonably correct for Michigan flock flocks are being sent to the slaughter, owners to apply and use as a basis of a reasonable encouragement could be safely extended to the sheep industry.

The question then arises, what is a The approximation of production fair price basis for wool? A reason-costs for wool with a small profit able allowance for profit should make would increase the flock wealth in Michigan wools worth sixty cents per Michigan within the next four years pound as a base rate, with some spread around \$25,000,000 without any serious for grade and quality. How to adjust displacement of any other farm industhe import duty to build up the flocks try. A living wage and return from in Michigan and the United States is investment would be morally guaranthen, a very pertinent question. Un- teed by this form of tariff revision, and der present conditions this duty would at an absolute gain to the consumer have to be over one hundred per cent. if congress should take the next for-But this starts on a base line which is ward step in enacting the Truth-indepressed approximately fifty per cent Fabric bill. If the wearer of a suit of by reason of difference in exchange. In woolen clothes were to actually pay fact, the tariff schedules will have to \$1.20 more for the day wool and be asbe written with the expectation of re- sured his suit was virgin new wool, his investment would add twenty-five

MILLIONS FOR THE MILITARY. BUT LITTLE FOR PEACE.

N the discussion on the navy appropriation bill there was an unsuccessful attempt made to prevent the expenditure of \$90,000,000 for continuing naval construction work until the President called an international conference on disarmament. It was stated on the floor of the house that the approgrowers of these countries are establishing great wool pools for their protection and to facilitate quick action.

The first wood is also established the act of the army and navy for the next fiscal year would total \$610,000,000, which is more monthly first wood in the army and navy for the next fiscal year would total \$610,000,000, which is more monthly first wood in the army and navy for the next fiscal year would be a supplied to the army and navy for the next fiscal year would be a supplied to the army and navy for the next fiscal year would be a supplied to the next fiscal year would be a supplied to the next fiscal year would be a supplied to the next fiscal year would be a supplied to the next fiscal year would be a supplied to the next fiscal year would be a supplied to the next fiscal year would be a supplied to the next fiscal year would be a supplied to the next fiscal year would be a supplied to the next fiscal year would be a supplied to the next fiscal year would be a supplied to the next fiscal year would be a supplied to the next fiscal year would be a supplied to the next fiscal year would be a supplied to the next fiscal year would be a supplied to the next fiscal year would be a supplied to the next fiscal year would be a supplied to the next fiscal year would be a supplied to the next fiscal year would be a supplied to the next fiscal year would be a supplied to the next fiscal year would be a supplied to the next fiscal year would be a supplied to the next fiscal year would be a supplied to the next fiscal year would be a supplied to the next fiscal year would be a supplied to the next fiscal year would be a supplied to the next fiscal year would be a supplied to the next fiscal year would be a supplied to the next fiscal year would be a supplied to the next fiscal year would be a supplied to the next fiscal year would be a supplied to the next fiscal year would be a supplied to the next fiscal year would be a supplied to the next fiscal year would be a supplied to the next fiscal year would be a supplied to the next fiscal y board of international conditions which to the war with Germany, exclusive of reaches out to the remotest sheep own-er in the United States is how to write said that congress was making approneeds of the wool grower on cost of priations for the year reaching upproduction, and meet elasticity of exdicted that federal taxation could not be reduced, and tax legislation would crease the difference of exchange only result in shifting the burdens of

No man deserves sympathy when he is compelled to sell his stock in a half-



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Wisconsin Wants Cloverland

And Other Upper Peninsular News-By L. A. Chase

igan to unite with the Badgers. It is longer delayed in relation to agriculrecognized here that such an arrange- ture, hopes to have full monthly rement would at the outset involve an ports from every county and he ought amendment to the Michigan Constitu- to have them. tion which fixes the present boundaries of the state, and that it could hardly The Alger county road commission, be expected that lower state voters says the Cloverland Farmer, of Muniwould approve the loss of such good sing, is constructing a large snow plow, taxing values, if they were careless to be drawn by a caterpillar tractor, about any other aspects of the scheme. and to be used in keeping the county's Wisconsin's invitation is undoubtedly roads open in the winter. The plow is a good talking-point. One quite fre- twenty feet in length and will clear a quently hears it said here that our road twenty-two feet wide, while the problems and connections more closely rear wings have a spread of thirty associate us with Wisconsin and Min- feet. It is said to be planned with refnesota than with southern Michigan, erence to over-coming such obstacles Michigan, and latitude signifies much Both forward and rear sets of runners riculture particularly. It has seemed, is said to obviate the turning in a than is official Michigan. This applies levers, it is stated, the plow can be and money are concerned we are are regulated with set-screws. The sing and Detroit, and that counts for a a lever as occasion requires. The plow little real secession sentiment, but I \$1,000. do hear expressions of a desire to have upper Michigan get its full share of official attention and good treatment. Sault Ste. Marie, after some investiga-It is this consideration that is back of tion of the subject, advocates that the the proposal to put an upper peninsula city maintain a rest-room for the farmman on the state board of agriculture. ers of Chippewa county, and particu-It is felt that agricultural development larly their womenfolks, for their use in the upper peninsula can better be and comfort while in town. This would promoted by the agencies of the Michi- be a place where they can hang up gan Agricultural College, if a member their wraps, use a phone, get warm,

week. At present twenty-four upper observed. peninsula children are receiving care under the supervision of the Michigan The main feature of this work is to opment in the upper peninsula. place children whose parents are unsociety.

Crop Reporters Needed.

tistician of the Cooperative Crop Reting a sufficient number of correspond- It is planned him with reports relative to crop con- will be present. detrimental to the agricultural inter- journal of February 11. POTATO BAGS Sound and free from holes. Sold direct to growers at wholesale prices. WRITE LINCOLN BAG CO., Dept. D, Springfield, III. ought to be made known generally. logs or people with ease.

PRESUME that no one takes very Mr. Church, after the publication of seriously the Wisconsin proposal to the census reports on upper Michigan invite the upper peninsula of Mich counties, which should not be much

· New Type Snow Plow.

Northern Wisconsin and Minnesota as have formerly worked against the are in the same latitude with northern use of plows here on roads in winter. as regards climate, industries and ag- have separate steering apparatus which too, that Wisconsin is officially more curve when necessary to take the side alive to the needs of the north country of the road. By using both steering especially to soil classification, for-turned off with a side movement. Upon estry colonization and conservation. It each runner a plate of movable iron is must be understood that so far as time attached to prevent skidding. These much closer to Milwaukee than to Lan- front plow can be raised or lowered by good deal; while many of our young is built so that it can be propelled people are trained in Wisconsin edu- either by pulling or pushing from the cational institutions. Still I find very tractor. The cost is given at about

Advocates Rest-room.

A writer in the Eevning News, of of its governing board is in a position attend to children, etc. As a matter to call attention to our peculiar needs. of fact, although many people do not Miss Cora B. Hall, of the Michigan know it, the establishment of what are Children's Home Society, with head-designated "public convenience staquarters at St. Joseph, spoke to the tions" in every city and village are reclasses in government and sociology of quired by the laws of Michigan, but the Northern State Normal School last this statute has seldom, if ever, been

Activity in Road Building.

Mr. I. H. Davis, district highway en-Children's Home Society, which is a gineer for the upper peninsula, prenon-sectarian, voluntary organization, dicts great activity in road construclicensed by the state but maintained tion in this territory, next season, acby funds contributed by various coun- cording to The Soo Times. Contracts ties and municipalities and private have been let, or will be let, for sevagencies in both peninsulas, and which some three hundred miles of state operates throughout the state. Mr. enty-five road jobs, and he figures that Frank G. Bell, of Negaunee, is chair- trunk-line highways will be under conman of the upper peninsula branch of tract in the upper peninsula this year. the society, and Mayor Harlow A. Mr. Davies stresses the coming "Pike Clark, of Marquette, is its secretary. Tour" as a promoter of highway devel-

From various points come reports able to give them suitable care, in good that robins have remained in the uphomes to board at the expense of the per peninsula all winter. The very mild weather is the cause of this.

The announced dates for the Goge-Mr. V. H. Church, Agricultural Sta- bic Couny Fair are September 14-15-16.

The Gogebic Range Poultry Assoporting Service, Lansing, informs me ciation plans to hold a poultry show that he has had some difficulty in get- at Ironwood the first week in March. that extension specialists ents in the upper peninsula, to furnish of the Michigan Agricultural College

ditions. It seems that there are no B. P. Pattison, agent of Delta county, such reports to be had from Alger and has purchased 35,000 pounds of clover Keweenaw counties, and that there is and timothy seed and 200,000 pounds inadequate service elsewhere in the of commercial fertilizer for members district. My own opinion is that such of the farm bureau of his county, for reports would be helpful rather than use this spring, says The Escanaba

ests of the district, and it is to be Ironwood reports the trial of a new hoped that competent farmers and oth- snow-motor in that vicinity recently as ers will be forthcoming to assist in having been very successful. The motthis work. For the areas involved, my or is said to work on the principle of impression is that crop yields run high a drum with a spiral arrangement that in northern Michigan-in some in plows the machine through deep snow stances very high indeed, and this fact and draws a heavily loaded sleigh of

TUNING THE TRACTOR.

BY F. R. COZZENS.

W HILE passing along the road one day last spring I heard the "popping" of a tractor, over in Smith's barnlot. It was yet too early in the season for active farming operations and I grew curious enough to go over and see what he was doing.

"I'm tuning her up for the spring plowing," he informed me.

I noticed the smooth easy-running engine.

"She seems to be in tune now," I remarked.

"Yes," said Smith, "but I've spent the forenoon in getting the result. I found three loose taps, and a mixture of dirty oil and bearing cuttings in the engine. After that was remedied, I located a rough spot in the cylinder."

I watched while he went carefully over the tractor. He tested each tap with a wrench, oiled the bearings and mopped out the grease cups with a coarse cloth. He found a twisted rod, and removed it.

"I'll get this fixed tonight," he said. "It's not serious, but some day when I am busy it will break, unless it is remedied. Afterward Smith explained his plan.

"Each spring, before the cropping season comes on, I take a day off to tune up my tractor. In spite of good care, some rust is sure to gather, and such places usually cause trouble later on. Grease and oil which was not removed in the autumn will become hard and troublesome. Then, too, slight breaks occur during the summer, and were probably forgotten. This tuning day brings each one of these defects out. I provide myself with an instruction book, a wrench, oiler and several strips of sandpaper. I start the engine—and listen. I have trained my ear to observe the sound of the motor. If there is a "knock" I begin with the rings and cylinder. If the explosions are muffled, or sound dead, I look for filth, dirty oil or rust. Sometimes smooth bearings develop rough spots, these should be noted and repaired at once."

I notice when the machine rattles, it is a sure sign of loose bolts or hood. Loose chains will also cause the trouble. Sometimes, when the motor does not pick up as it should, I run kerosene oil through the bearing surfaces. This cuts away rust and cleans out filth.

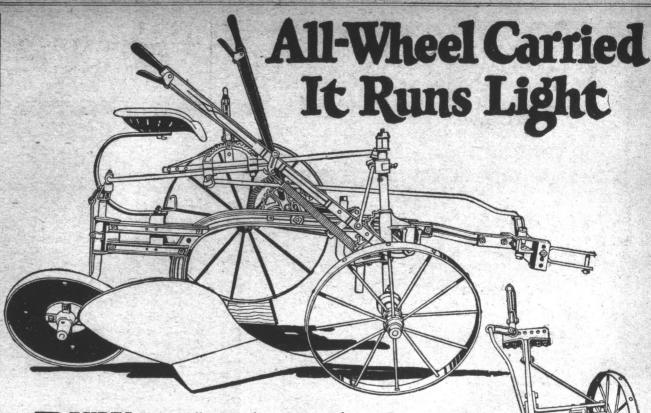
If there is trouble which I do not understand, I stop and study the diagram of the machine, in my instruction book. I trace each part and learn what work it performs. In many cases I can locate the trouble without tearing the whole rig apart. "Another thing," Smith cautioned. "When tractors look old because they are not painted, I find it a good plan to give my machine a coat of good paint each season."

FRUIT GROWERS' CONFERENCE CALLED.

The fruit growers of America have requested the American Farm Bureau Federation to call a conference of their representatives to discuss ways and leans of advancing their interests. President J. R. Howard has issued a call for such a meeting to be held in the Congress Hotel, Chicago, Illinois, on April 5. The Department of Cooperative Marketing will have the meeting in charge. Each State Farm Bureau Federation has been requested to send at least one official representative of the fruit representative of the fruit growers of its state.

TOURISTS MEET AT M. A. C.

The first annual reunion of the Mich-The first annual reunion of the Michigan Farmers' Automobile Tour Association will be held at Michigan Agricultural College, June 22-23. Cars will go equipped for camping on the college green. There will be a program for the afternoon and evening of the first day and the morning and afternoon of the second. Sessions will convene in the gymnasium.



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ATTEMPT TO DEFRAUD CRED.

off everything as fast as he can so he can move out of the county. What steps can I take to get payment on the note before he leaves? I understand he has done the same trick with other tricks with other tricks. ers.—Subscriber.

ant is disposing of his property to de- resemble small sweet potatoes, and fraud his creditors would entitle the which constitute the edible part, are creditor filing the affidavit to an at- rated as equal to potatoes in nutritive tachment of such property as is not value. The taste is not relished by exempt from execution, and hold it till most people. They may be served judgment could be explained and ex- boiled, pickled or cooked for salads. ecution could be obtained. The debtor They are considered valuable for stock would be entitled to two cows, five feeding, especially for hogs. When hogs, a team, tools, and provisions for grown for this purpose, the hogs ususix months from execution; but the ex- ally do the harvesting of the tubers. emption on the team extends only to \$250. Plans and efforts to sell exempt property do not constitute grounds for attachment.-J. R. R.

DRAWING LAND CONTRACT.

Can you give me some idea about drawing up a land contract? I halve sold properly in California, the buyer making a down payment of so much, and then a certain amount each year until the last payment, when he is to receive the deed, he to pay the taxes and interest each year.

It would not be safe to draw such a familiar with the law where the land lies. It would be best to have a lawyer in California draw the contract. The danger of injury from freezing. little saved in making the contract yourself. The little saved in making the contract yourself is poor economy. J. R. R.

GROWING ARTICHOKES.

I would like to know how to raise artichokes for market. What kind of soil do they need, and at what depth should they be planted?

Van Buren Co.

J. O. C.

Jerusalem artichokes. The Globe variety is grown but little in American choke is a roundish cluster of closely grouped leaves which are called chards. This edible portion is formed at the base of the flower heads and resembles to some extent, a large cone. The flower head scales must be cut

be boiled and served in the form of a salad or pickled.

by the division of the roots. The seeds beans in thicker. able the grower to cut edible heads the and horses. first season. If the seeds are sown in the open they should be sown in beds where they can be left throughless tendency to vary than those grown acre.-L.

and the plants spaced two feet in the row. For the best results the plantation should not be retained more than I sold a neighbor a cow a little over a year ago, taking a note for \$80 signed by the man and his wife, note bearing interest at six per cent. Now the note was due in November, 1920, and he refuses to pay. Also he bought wheat and other things until the debt amounts to \$129.50. This man is a renter and has two teams, the cows and other stuff, including baled hay, but he has sold the cow, and is selling off everything as fast as he can so he frost in the fall.

The Jerusalem artichokes are produced to a very limited extent for the American markets. It is native to the northern part of the United States and Affidavit to the fact that the defend- to parts of Canada. The tubers which

This vegetable can be grown in a variety of soils from a rather poor sand to a rich sandy loam, or any loose porous soil. Under favorable conditions the plants often yield five hundred bushels per acre and sometimes more. The tubers may be planted whole or cut into one to three-eye pieces in a similar manner to the way Irish potatoes are cut for planting. The tubers should be planted very early in the spring. The rows should be about three feet apart and the cut pieces from fifteen to eighteen inches apart in the contract without assistance of a lawyer row. As soon as the tops are dead the crop may be dug or it can be left in the ground through the winter without

C. W. WAID.

SOY BEANS FOR HAY.

Last spring I planted some soy eans. I drilled them in twenty-eight beans. inches apart with a grain drill and cut them for hay, but I found they grew almost too rank and the stalks were so large the cows would not eat them. Would it be advisable to drill them the same as wheat and oats? If so, when Van Buren Co.

I am not sure from your letter whether you refer to Globe artichokes or and ripen in Michigan?

J.O.C. should they be sown and how many per acre? What variety will mature and ripen in Michigan?

Hillsdale Co.

Soy beans can be drilled in broadgardens. The edible part of this arti. cast with grain drill, like wheat and oats, and then harvested for hay by cutting them with mowing machine. The only trouble is that on weedy land the weeds are liable to get a start of the beans and make you trouble. Again if the land is clay and inclined to bake when young and tender. They are gen- after a rain the beans will not do well erally eaten raw, although they may if we have a cold wet season. This kind of land should be cultivated and loosened up for beans if you want them -The Globe artichokes are hardy but to grow readily. I think you would get require some protection drring the win- just as good results by adhering to ter in some northern sections. It is your system in planting in rows twenpropagated from seed or suckers, or ty-eight inches apart and drill the may be sown under glass in march eating soy bean hay they will eat the and young plants pricked into pots be. stalks even if they are pretty course, fore setting in the field. This will ent hey seem to like them; so will sheep

out the season and transplanted into I would prefer the medium green or the field the following spring. Plants even the late yellow, as I think you propagated from suckers show much would get a larger yield of hay per

This vegetable grows best on a rich Quality, accompanied by size, is moist, but well drained soil. The rows what every hog-grower should be seek-

RATION DEFICIENT IN PROTEIN.

We are feeding milch cows a ration of corn stover, ear corn on the stalk, and a mixture of rye and clover hay. They have gone wrong on us, that is, three have. The rest are heifers coming in in the spring. Can you advise us what the trouble is with our ration and how we may rectify it? We have no silo up at present, but will have one before another winter. M. G. B.

I don't think it would be possible for cows to give a maximum amount of milk on this ration, for two reasons. It is altogether too bulky and it is quite deficient in protein. When you feed corn on stalks you do not get full value of the corn. I know that many people feed steers in this way, but you must have hogs following or there will be a great loss and it would be permissible to feed the corn on stalks to dairy cows if you had hogs to follow to take care of the undigested corn, otherwise this corn should be run into a silo to soften it up so that the cows can digest it readily, or husk this corn and feed stalks to cows and grind the corn. Corn stover and rye and clover hay are all right for cows if you feed them liberally, so that they can select the best of the cornstalks. You cannot expect them to eat all the stalks. I would suggest in addition to the ration which you are now feeding, that you would feed two pounds of oil meal to each cow per day and enough bran in addition so that each cow would get enough of the bran and oil meal to make one pound of grain for every four pounds of milk they produce .- L.

VARIATION OF BUTTER-FAT IN MILK.

A neighbor claims that milk at the end of the lacteal period is richer than at the beginning of that period. Is this so? We have been using milk from a cow that will freshen March 1. We have been unable to make butter from the cream since October. We have taken good care of the cream. Why will it not churn? I have always understood this was because the particles of butter-fat were smaller and fewer in number at the close of the lacteal period. Am I right? Which breed of cattle holds the world's championship for amount of butter-fat produced in one year?

A. E. B.

When a cow freshens she gives richer milk than she does a little later in the flush of the period of lactation. But when the flow of milk begins to lessen it gradually becomes richer in butter-fat. Then at the very close of the period of lactation when she is what is termed a stripper, she gives richer milk than at any other time.

Because your butter will not come I do not think it due to the fact that the cow is due to freshen in March, but rather to the way that you handle your cream. It should be kept sweet if possible till you have enough for a churning, then should be warmed up to seventy degrees for twenty-four hours, or until it is properly ripened, and in winter churn at about sixty-two degrees. If you do this I believe the butter will come.

The Holstein-Friesian bre d of cattle have the world record for the largest amount of butter-fat produced in a year.—C. C. L.

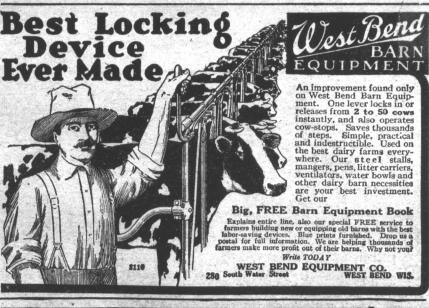
PUTTING SHOCK CORN IN SILO.

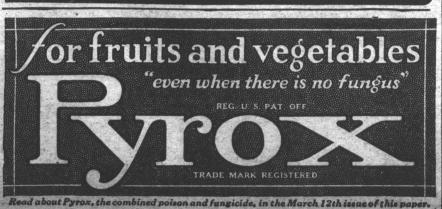
Do you think it practical to put unhusked corn in silo at this time of year? The corn is a good crop, going about 100 baskets to the acre. I was thinking of putting in silo and wetting while filling.

P. H. S.

It is getting to be quite a common practice to put shock corn in silos. Many people fill their silos in the fall and cut and shock the rest of the corn, then when the silage is fed out sufficiently they fill again, with shocked corn. It makes good feed if it is properly wet down, but you must take pains to wet it thoroughly. There is no way as good as running a stream of water in the blower at time of filling. This distributes the moisture evenly.—L.





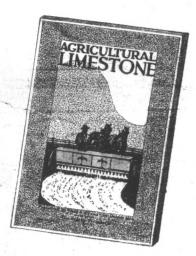






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Many Michigan farmers especially in sections long cultivated are having great difficulty in getting a good catch of clover or a paying yield of alfalfa. They are losing their seed and other crops are suffering because rotation is interfered with. And these are only two out of many crops that are seriously affected by the lack of limestone.

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No farmer in Michigan should wait until an actual crop failure announces his farm's lack of lime. You should know the tests for "sour" land—should understand the benefits of limestone applied to sandy soil—to heavy clay soil. You should know whether your land needs lime, how to judge how much to the acre, and should know the probable dollars-and-cents value of limestone for each of the crops you raise on your farm.

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WORLD EVENTS IN PICTURES



A string of American polo ponies arrive in England to be used in the international polo matches to be held there in June.

The art of self-defense is being taught girls at the University of Cincinnati. These girls who are studying to become physical culture teachers, feel the need of every kind of preparation.





Thomas A. Edison, electrical wizard, enjoys the best of health as he celebrates his seventy-fourth birthday.

This New York reporter is at present wielding as much power over Austria as ever did the Hapsburgs.

Wife of noted explorer will accompany husband on the "missing link" expedition.



Mrs. Christy Mathewson, wife of the famous base-ball pitcher, who is nursing her husband through a serious illness, and her son, Christy, Jr., shown watching skating races.

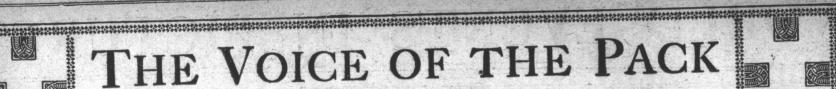


From an oil painting of the first inauguration of Washington as president of the United States in New York City, April 30, 1789.



War engineers are trying out different designs of automobiles equipped to travel over difficult roads.

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By EDISON MARSHALL

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just the same, don't you? And what fooling, Lennox. Dan learned that long in the courts. What if I choose to set feet over the snow crust, the whole are you going to do about it?"

and your crowd stole the supplies from much on that." the forest station last winter-and that don't want coyotes, either."

"You lie still and shut up, and I suspect that sissy boarder of yours will come back, after he's through embracing your daughter in the snow, and find you in one piece. Otherwise not."

"If I were in one piece," Lennox answered him very quietly, "instead of a bundle of broken bones that can't lift its arms, I'd get up off this couch, unarmed as I am, and stamp on your lying lips."

But Cranston only laughed and tied Lennox's feet with a cord from the window shade.

the living-room. Then he looked on all Lennox," he warned. the mantels and ransacked the cupboards and the drawers. He was taunt- gard to me, either," Lennox replied. stripped of all delusion—not only in said. among old letters in the suitcase. Then, can't stand it."

calmness. His motives were perfectly bent forward, tense. place, and was entirely exhausted from have to pay." it. He had succeeded in getting down agony, but had been unable to lift him- change. self up in reach of the gun.

where anything seemed to matter.

at Lennox's wasted breast. money?"

GOES TO MARKET

ago, and it's time you learned it now." fire to this house?"

"Dan learned it because he was sick.

Cranston laughed with harsh scorn, floor. had no chance to take them into town. it? Wouldn't you have a fat chance of a moment his strength might come I'll give you—just five seconds to tell getting down to civilization?" me where they're hidden,"

blazes!"

ing and calm at first. But as the mo- "I've stood worse pain from this acci- the snow world outside but in the ments passed, his passion grew upon dent, than any man can give me while hearts of these two men, its sons. him. He no longer smiled. The rodent I yet live, no matter what he does. If closet. He upset his trunk and pawed to fawning to a coyote like you, and I

floor near the fireplace; and he met searing him, like fire, in his dark brain. came curling, pungent with burning oil, the passion-drawn face with entire Nothing seemed real. He suddenly through the corridor.

effort to procure Dan's rifle that hung "But you'd be a little more polite if it when he came in. "Let's see you crawl fast as their unwieldy snowshoes would on two set of deer horns over the fire- was Snowbird-and Dan-that would out now."

Snowbird's a match for you."

dered him. Again he pointed his rifle meant?" Cranston scorned. "I know a nox began to crawl toward the door. about him in a mad circle. way to destroy those letters, and I'll He managed to grasp the corner of "You know what I want—and it isn't goin' to give you a chance to tell now; wracked him, and smoke half-blinded She turned an sped at a breakneck

guttural reply. "But you see I'm here ing found on the ridge. I'm through be any witnesses then to yell around the time he had crawled one hundred

"It wouldn't surprise me a great tongues spoke with a roar. you would come to steal—just as you He isn't sick now. Don't presume too deal. It's your own trade." Lennox shuddered once on his place on the face, hurried to the outbuildings. There

ders. I didn't want thieves around my I've wasted all the time I'm going to. those letters then, would I? They are wind flung the flame through it in an house, and I don't want them now. I You are an old man and helpless, but somewhere in the house, and they'd be instant. The sheds and other outbuild-I'm not going to let that stand in the burned to ashes. But that isn't all ings were treated with oil. And seeing "And I don't want any such remarks way of getting what I came to get, that would be burned. You could may that his work was done, he called once And I don't want any such remarks They're hidden somewhere around this be crawl out, but you couldn't carry to the prone body of Lennox on the snow, because he'd want 'em where he pantry full of food. You're nearly could get them. By no means would eighty miles up here from the nearest this time. Rather it was a prayer, unhe carry them on his person—fearing occupied house, with two pair of snow- uttered, and in his long years Lennox that some day he'd meet me on the shoes for the three of you and one had not prayed often. When he prayed ridge. He's a fool, but he ain't that dinky pistol. And you can't walk at at all, the words were burning fire. His much of a fool. I've watched, and he's all. It would be a nice pickle, wouldn't prayer was that of Samson—that for

The voice no longer held steady. It "And I give you," Lennox replied, trembled with passion. This was no "one second less than that—to go to idle threat. The brain had already seized upon the scheme with every inten-Both of them breathed hard in the tion of carrying it out. Outside the ly. First he rifled Lennox's desk in and shoulders. "Don't get me wrong, erhung with that curious winter silence one of those mysterious fogs that somethat, one felt, returns often in dreams. times sweep over the snow. "And don't have any delusions in re- The wilderness lay stark and bare,

"I have only one hope," Lennox re-

derness, he came back to the living- had flamed in his mind and cast a red crinkle of paper and then a pouring They had learned to face the truth, glamour over all the scene about him. sound around the walls. Then he and they faced it now. Lennox was not on the divan where It was instilling a poison in his nerves heard the sharp crack of a match. An he had left him. He lay instead on the and a madness in his blood, and it was instant later the first wisp of smoke "And father can't get out."

"That's all right about you," he said. reach that gun," Cranston told him both of them started across the snow,

Lennox's answer was a curse—the Perhaps the color faded slightly in last, dread outpouring of an unbroken to her. "Don't give up, Snowbird mine. from the couch, though wracked by Lennox's face; but his voice did not will. He didn't look again at the glit- I think he'll be safe." tering eyes. He scarcely watched "Did you think that was what I the fire being extinguished. And Len- the girl seized his hands and danced

"Tell you where what is? My do it-in the four seconds that I said, the blanket on the divan as he went, see him-just a dot on the snow. He unless you tell. I'm not even sure I'm and he dragged it behind him. Pain crawled out to safety.

"You did say that," was Cranston's money. I mean those letters that Fail- it's too good a scheme. There won't him. But he made it at last. And by structure was in flames. The red

Cranston, the fire-madness on his he repeated the work. He touched a "But that isn't the question. I said "I wouldn't have to worry about match to the hay in the barn, and the

Lennox's answer was not a curse back to him.

CHAPTER XIV.

NO miles across the ridges, Dan and Snowbird saw a faint mist blowing between the trees. They quiet room. Cranston was trembling snow glittered in the sunlight, and didn't recognize it at first. It might be He went to work very systematical- now, shivering just a little in his arms pine limbs bowed with their load; ov- fine snow, blown by the wind, or even

"But it looks like smoke," Snowbird

"But it couldn't be. The trees are too wet to burn."

But then a sound that at first was features became intent; the eyes nar- you want to get on me and hammer me plied. "I hope, unknown to me, that just the faintest whisper in which rowed to curious, bright slits under the in the approved Cranston way, I can't Dan has already dispatched those let-neither of them would let themselves dark lashes. He went to Dan's room, defend myself-but you won't get a ters. The arm of the law is long, believe, became distinct past all denysearched his bureau drawer and all the civil answer out of me. I'm used to Cranston. It's easy to forget that fact ing. It was that menacing crackle of pockets of the clothes hanging in his pain, and I can stand it. I'm not used up here. It will reach you in the end." a great fire, that in the whole world Cranston turned through the door, of sounds is perhaps the most terrible. into the kitchen. He was gone a long They were trained by the hills, and But Cranston hardly heard. An idea time. Lennox heard him at work: the neither of them tried to mince words.

"It's our house," Snowbird told him.

She spoke very quietly. Perhaps the most terrible truths of life are always "You crawled from your couch to spoken in that same quiet voice. Then

"He can crawl a little," Dan called

They mounted to the top of the "They'll see your footprints before Cranston's further preparations: the ridge; and the long sweep of the forest Cranston read his intention in one they come in and be ready," Lennox re- oil poured on the rugs and furniture, was revealed to them. The house was glance. Lennox knew it, but he simply plied evenly. "They always come by the kindling placed at the base of the a singular tall pillar of flame, already didn't care. He had passed the point the back way. And even with a pistol, curtains. Cranston was trained in this glowing that dreadful red from which

"He's alive," she cried.







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pace down the ridge. Dan had to race to keep up with her. But it wasn't entirely wise to try to mush so fast. A dead log lay beneath the snow with a broken limb stretched almost to its surface, and it caught her snowshoe. The wood cracked sharply, and she fell forward in the snow. But she was not hurt, and the snowshoe itself, in spite of a small crack in the wood, was still serviceable.

"Haste makes waste," he told her. "Keep your feet on the ground, Snowbird; the house is gone already and your father is safe. Remember what lies before us."

The thought sobered and halted her. She glanced once at the dark face of her companion. Dan couldn't understand the strange light that suddenly leaped to her eyes. Perhaps she herself couldn't have explained the wave of tenderness that swept over herwith no cause except the look in Dan's earnest gray eyes and the lines that cut so deep. Since the world was new, it has been the boast of the boldest of men that they looked their Fate in the face. And this is no mean looking. For fate is a sword from the darkness. a power that reaches out of the mystery, and cannot be classed with sights of human origin. It burns out the eyes of all but the strongest men. Yet Dan was looking at his fate now, and his eyes held straight.

They walked together down to the ruined house, and the three of them sat silent while the fire burned red. Then Lennox turned to them with a half-smile.

"You're wasting time, you two," he said. "Remember all our food is gone. If you start now, and walk hard, maybe you can make it out."

"There are several things to do first," Dan answered simply.

"I don't know what they are. It isn't going to be any picnic, Dan. A man can travel only so far without food to keep up his strength, particularly over such ridges as you have to cross. It will be easy to give up and die. It's the test, man; it's the test."

"And what about you?" his daughter asked.

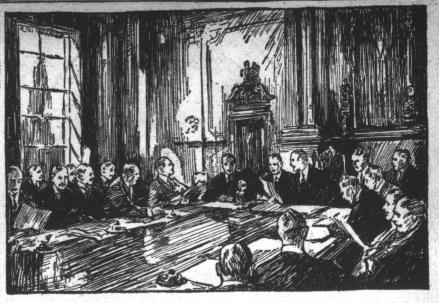
"Oh, I'll be all right. Besides-it's the only thing that can be done. I can't walk, and you can't carry me on your backs. What else remains? I'll stay here-and I'll scrape together enough wood to keep a fire. Then you can bring help."

He kept his eyes averted when he talked. He was afraid for Dan to see them, knowing that he could read the lie in them.

"How do you expect to find woodin this snow?" Dan asked him. "It will take four days to get out; do you think you could lie here and battle with a fire for four days, and then four days more that it will take to come back. You'd have two choices, to burn green wood that I'd cut for you before I left, or the rain-soaked dead wood under the snow. You couldn't keep either one of them burning, and you'd die in a night. Besides—this is no time for an unarmed man to be alone in the

Lennox's voice grew pleading. "Be sensible, Dan!" he cried. "That Cranston's got us, and got us right. I've only one thing more I care about-and that is that you pay the debt! I can't hope to get out myself. I say that I can't even hope to. But if you bring my daughter through-and when the spring comes, pay what we owe to son-I've lived my life. The old pack leader dies when his time comes, and so does a man."

His daughter crept to him and sheltered his gray head against her breast.



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hills."

Cranston-I'll be content. Heavens,

"I'll stay with you, then," she cried.

"Don't be a little fool, Snowbird." he urged. "My clothes are wet already from the melted snow. It's too long a way-it will be too hard a fight, and children-I'm old and tired out. I don't



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cold; and even if you'd stay here and bird, and so is Dan-and you two will grub wood, Snowbird, they'd find us be happy. I know how things are, you both dead when they came back in a two-more than you know yourselves week. We can't live without food, and -and in the end you'll be happy. But work and keep warm—and there isn't me—I'm too tired to make the try. I a living creature in the hills."

"Except the wolves," Lennox echoed. feel warm in a little while-"Remember, we're unarmed-and they

want to make the try-hunger and would find it out. You're young, Snowdon't care about it enough. I'm going "Except the wolves," Dan reminded to wave you good-by, and smile, and lie here and let the cold come down. You

But she stopped his lips with her

A Farmers' Week Visitor

Our Weekly Sermon-By N. A. McCune

potato exhibit, worth any man's going farmer, "The worst-is yet to come."

Hughes, and a long list of notables of sprays and poisons and preventives. the present day, who are listed in "Who's Who in America."

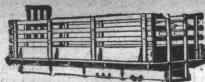
cent of it.

the cities need them badly enough.

alog of their enemies. All their foes thou are also called."

S the preacher wandered in and are card indexed, with name, species, out among the exhibits on Farm- habits and street number attached. ers' Week, he was much impress- There are the coddling moth, the gyp-There were the apples-dark red sy moth, the Japanese beetle, the Eu-McIntoshes, Wolff Rivers, as big as ropean corn borer, the rat, the crow, musk melons, piles of Grimes Golden, the English sparrow, Cooper's hawk, our good friend the Baldwin, Seek-no- and many more. The descriptions of furthers that our grandmothers loved, some of these enemies are almost terand many more. And there was the rifying. One might almost say to the to see. The grain show was enough Foreign foes are invading the Amerito rejoice the heart of the farmer, or can farmer's fields. Much was said anyone who likes corn meal muffins or last summer about the advent of the oat meal for breakfast. But one ex- European corn borer. If he should pay hibit was not there, which would have a visit to the corn belt, he would rebeen an addition to the whole thing, ceive more attention than would a visit That was an exhibit of the country of the President of the Republic. We are told that the Japanese beetle is It would not be easy to assemble just nicely getting under way, and such an exhibit, but it could be done. marshalling his forces for efficient de-The church exhibit might start off struction. We may hear more of him with a photograph gallery, showing the later. And there is our old friend the pictures of eminent men who have rat. On the rat exhibit it stated that been the sons of country preachers. At one pair, if unhindered, would increase first we might put in the photographs in five years to nine hundred and forty of one hundred heads of corporations, billions. After reading that, the preacheach one of whom is a millionaire, or er turned around and went back to see a multimillionaire, all the sons of coun- if it was millions or billions. Again, try preachers. Next would follow edi- this listing and charting and card intors of great dailies, literary men like dexing of your enemies is wise. It is Henry Van Dyke, Richard Watson Gil- shrewd, scientific and sound. By the der, at least three presidents, Arthur, time some of these recent arrivals are Cleveland and Wilson, such statesmen ready for work they will find the modas Clay, Morton, Beveridge, Dolliver, ern farmer armed to the teeth with

And then your preacher asked himself this question: Is the church as Then it might not be a bad idea to wise as the farmer and the agriculhave some models of modern country tural professor? Have we made a chart church architecture, such as are begin- of the enemies of religion? Do we ning to be found here and there in pro- know who are the foes of the soul, gressive communities. But before leav- those who hate us, and our children? ing the photograph gallery, I would For that is what it means. Those who have a picture of that preacher in the oppose God are the enemies of man. Ozarks who has faced ruffians when What would we list as such enemies? they came to break up his meetings, Indifference. The indifferent and stuand has arrested mountain bootleggers. pid farmer is the bane of progress. It might be well to have a picture of The indifferent and stupid minister, the large city church in Michigan, and church officer, and congregation which said to a young minister, "You stand in the way of all advancement go to such a town, where the church of the Kingdom. Another enemy in our is dead and buried. Dig it up, and list would be the abuse of Sunday. breathe some life into the corpse. If Still another would be the salacious the people there don't pay your salary, moving picture screen that has sent we will." He went. The big church more than one lad to prison. And then did not have to pay his salary, not a there are particular enemies in one's community. The grasshoppers last The model of a large "demonstration summer came to certain counties, but parish" would be good, also, such as is other counties hard by, were not visitbeing tried out in Michigan now, where ed. One may have to make a special a large town church has two or three chart of local enemies. But the idea ministers and a lady worker, and with remains. When one is shooting at a this force five or six rural churches target, he knows what he is shooting round about are served in a most hap- at. Too often the church fires off its py way. There could be more to our ammunition into the air, hoping some country church exhibit, but it would foe may be brought down, but no entake too much room. Howe'ver, we emy in particular. As Roosevelt said, might finish up with a chart, that "The only shots that count are the would give city church folks apoplexy. shots that hit." The farmer is fast The chart would show that if the rural learning that. The church is also learnchurches should be closed all over the ing it. And the enemies of religion are land, hundreds of city churches would of greater importance than the enehave to close, in a few years, and if mies of the farm. If the coddling moth ministerial candidates from the coun- should carry off the entire apple crop, try should cease to appear, the short- we could survive. If foot-and-mouth age of ministers would close many disease slew the last beef animal, humore churches in the great cities. And manity could make shift to exist. But if the next generation of youth should be carried off, humanity could not ex-THE preacher was impressed with ist. The greatest enemies are the enthe sense and science of these pro- emies of the soul. Here is a text that fessors of agriculture, and these up-to- will fit: "Fight the good fight of faith, date farmers. They have made a cat- lay hold on eternal life, whereunto



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hand. And he bent and kissed it. "If anybody's going to stay with you," Dan told them in a clear, firm voice, "it's going to be me. But aren't any of the cabins occupied?"

"You know they aren't," Lennox answered. "Not even the house beyond the North Fork, even if we could get across. The nearest help is over seven miles."

"And Snowbird, think! Haven't any supplies been left in the ranger station?"

"Not one thing," the girl told him. "You know Cranston and his crowd robbed the place last winter. And the telephone lines were, disconnected when the rangers left."

"Then the only way is for me to stay here. You can take the pistol, and you'll have a fair chance of getting through. I'll grub wood for our camp meanwhile, and you can bring help."

"And if the wolves come, or if help didn't come in time," Lennox whispered, passion-drawn for the first time, "who would pay what we owe to Cranston,"

"But her life counts-first of all."

"I know it does-but mine doesn't count at all. Believe me, you two. I am speaking from my own desires when I say I don't want to make the fight. Snowbird would never make it through alone. There are the dolves, and maybe Cranston too-the worst wolf of all. A woman can't mush across those ridges four days without food, without someone who loves her and forces her in! Neither can she stay here with me and try to make green branches burn in a fire. She's got three little pistol balls-and we'd all die for a whim. Oh, please, please-"

But Dan leaped for his hand with glowing eyes. 'Listen, man!" he cried. "I know another way yet. I know more than one way; but one, if we've got the strength, is almost sure. There is an ax in the kitchen, and the blade will still be good."

"Likely dulled with the fire-"

"I'll cut a limb with my jackknife for the handle. There will be nails in the ashes, plenty of them. We'll make a rude sledge, and we'll get you out too."

Lennox seemed to be studying his wasted hands. "It's a chance, but it isn't worth it," he said at last. "You'll have fight enough, without tugging at a heavy sled. It will take all night to build it, and it would cut down your chances of getting out by pretty near half. Remember the ridges, Dan-"

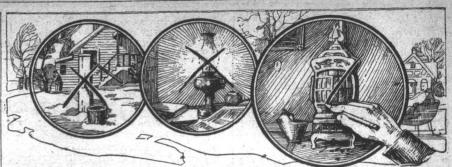
"But we'll climb every ridge-besides, its a slow, down grade most of the way. Snowbird-tell him he must (Continued next week).

Sunshine Hollow Items By Rube Rubicon

John Munday and Stella Friday were married last Saturday by Rev. Sunday. They will leave Tuesday for Eaton Rapids and be back Wednesday or Thursday.

Melvin Hogan says that its fortunate we can still get quite a parcel of education after leaving school. Melvin went to a university but says it isn't his fault because his folks sent him there. But Melvin got right out after graduation and learned a business from the basement to the attic. He was'nt afraid of getting his hands chapped. So he makes a good living in spite of the folks that said he was wasting time buying book learning.

Automobiles have spoiled the bathroom over to the Jones farm. Bruce Jones drove nail holes in an old milk pail and hung it on an apple tree limb. Then he poured a pail of warm water in it after dark and stood under and had a shower bath. Now they have repaired the road and so many big headlights are flashing along every night that it isn't safe to use the bathroom any more.



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first of all, because better things can be made of it, at the price, than anything else.

In homes of the well-to-do Jell-O is popular because it is too good to 'go without."

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Woman's Interests

Score One for the New Girl

direction towards educating girls. We in the new laboratories, and eventually ber of such mothers has grown so women, for instance, who sat down they must reduce the thing to an ex- alarmingly in the past fifteen years with the first baby and wrung our act science. Girls going out from the that their united voice must surely be hands in hopeless ignorance, why were school will spread the knowledge, and strong enough to carry the day. We we taught everything except the one the extension department, with its want to know what to feed the baby. thing a girl should know, how to feed workers and by bulletins, will place And if a new building at M. A. C. is the baby? What difference did it make the formulas in the hands of every needed to furnish us this knowledge, to us whether the sum of the angles mother. of a triangle equalled two right angles, whether Caesar conquered Gaul or Gaul conquered Caesar, when the baby was dying because we could not furnish nature's food, and none of the artificial foods we blindly offered were of any use?

Yet if we had demanded from the schools-or from our mothers-in those good old days, that girls be taught the science of motherhood if the science of mathematics had to go neglected, we would have been considered quite beyond the pale. For a girl to even think she might be a mother some day was so immodest, it wasn't even decent.

But the world surely do move. If the modern girl with her abbreviated skirts and silken hose and no underwear, who is quite beyond the understanding of us mothers, has succeeded in shaking off the shell of false modesty that hampered us, and has made sages and savants sit up and take notice of what women really want and need, more power to her.

All this is a long ways from what I started out to say, however, that the board of agriculture in deciding to request the funds for a building where experiments in feeding of infants can be carried on, has asked the greatest thing they could do for the state. The day has gone by when correct feeding tain material and give can be looked upon as a fad. We must know what to feed the new baby, for seventy-five per cent of the mothers simply cannot feed it naturally. It is not a question of refusing, it is absolute inability. That in itself is an

But the main thing is to find out what to feed the baby. Modified cow's milk is, so far, the best substitute, but scores of babies are unable to take cow's milk no matter how it is modified. Then begins a search for something that will turn the trick. If you are lucky and find it right away, all is well. If the baby proves hard to suit, there follow weeks of wretchedness for mother and child, physical suffering for baby, mental suffering for the mother.

I don't know how it struck other mothers, but when I went through the ordeal with my first baby, I was im-Unless you see the name "Bayer" on pressed with the fact that the doctor was just as ignorant as I was. In fact, he was even more ignorant. For while I had learned in a home economics course something about the chemical analysis of foods, the doctor didn't seem to have heard that there was such a thing as sugar, fat, or protein, that foods might be analyzed, and that you might go about the problem of finding the right thing in a scientific manner. With the doctor it was a matter of trying this thing today and that tomorrow, while the baby grew feebler and feebler.

If the new building becomes a real-

NE of the most encouraging signs ity instead of a dream, we can all know through the hell of caring for a baby of the times to forward looking what to do some day. For experts suffering from mal-nutrition can underwomen is the step in the right will carry on studies and experiments stand what this means. But the num-

Only the mothers who have gone



let us by all means have the building.

Patchwork-Old But New

HE aprons here shown illustrate an easy and attractive form of decorative work which can be applied to all sorts of garments and household draperies.

These aprons are of black and white striped percale, the appliques cut out of cretonne and buttonholed on in black. The result is two smart aprons which otherwise would have been plain utility "pinnies." Children's bibs and little girls' aprons may be brightened with cutout animals.

Unbleached muslin with cut-outs of pink roses, yellow chrysanthemums-or even the gay parrot on the apron-make cheap curthe room a dressed-up air. Cushions, buffet

made with this "patch work" applique. signs and colors as may suit her fancy. Any girl who is contemplating a Where several articles are for the one alarming situation, and its cause should room this spring may achieve pleasing effects are obtained if the cretonne setake up the time of another set of results with curtains, dresser scarf and lected is composed of small, dainty de-



scarfs and table runners are quickly same material, decorated with such dechange in the color scheme of her bed-room, it will be found that the best cushions and even a bed-spread of the signs rather than the larger patterns.

> One store is asking fifteen dollars for a bed spread of unbleached sheeting, with center and corners decorated in this simple fashion. that is needed for the work is a pair of sharp scissors, artistic sense to pick out appropriate patterns, mercerized cotton in fast colors, good needles, and patience.

> But the patchwork idea is by no means. confined to bedroom furnishings and kiddies' clothes. Shops specializing in garments for grown-ups show this quaint trimming. Bright hued butterflies cut from cretonne served as pockets on one cream-colored smock, while cretonne blue birds decorated another smock of deep rose color.



An Aid to the Home Dressmaker

patterns furnished by pattern manu- hips, should be used. Baste the seams facturers are necessarily made for av- securely, fit with seams turned toten found that a pattern bought ac- just alike on both sides. cording to bust or waist measurement may not fit at neck or hip.

satisfactory.

There are various types of dress marking. forms on the market. It is not at all one, in fact, many prefer the least expensive ones. A tight lining, carefully fitted to the individual, should be used with any form. There are inexpensive bust forms which sell for a few dollars, which may be made into a satisfactory model with comparatively little work.

The form should be bought two inchthe bust measures thirty-six inches, and enclosed at top and bottom with a ing leeway for variation from average ed to fit a sleeve, this arm may be pinmeasurements. Hips and waist too ned into place on the form, after which small may be padded out, but if too it can be removed and out of the way large, the form is of little use. Take when not in use. This sleeve form is a snug bust measure, keeping the tape especially useful in fitting a coat well up across the back and over the sleeve. fullest part of the bust in front.

or the handy man around the house great a difference in size, the form may piece of wood of sufficient strength, will probably have to be changed. securely fastened to a base on which is just that of the individual.

The fitted lining is best made of out one.

PROBABLY the most difficult prob- heavy unbleached muslin, as it will lem confronting the home dress not stretch. A fitted waist pattern maker is that of designing and fit- with side front and back seams, with ting dresses for herself. The excellent the pieces coming well down over the erage proportions. Individual women, wards the wearer, or fit with seams however, are not all built according to out and then turn and try on again for these average measurements. It is of- any changes needed. Few persons are

The lining should be very tightly fitted from neck well down over the hips. When copying a design from the It should be sewed up the center of fashion book, trimmings are hard to the front and left open down the cenadjust, drapery may not look as it did ter of the back. A tight-fitting collar in the picture, and skirts are difficult should be sewed to the neck. Fit all to hang. A long mirror is a great help, seams carefully, trim to about a halfand will be found useful to the home inch wide, and notch on curves to aldressmaker, but it does not entirely low stretching. Try on again to be fill the bill. The dress form really sure the fit is right. Mark the waist solves the problem many times and line, the line for fastening in back, and makes sewing for oneself much more a line for the armhole, later stitching with colored thread for a permanent

When the lining is ready, slip it on necessary to buy the highest priced the form, noting the points where the form does not fill it out. Pad out the form where it fails to fit the lining, making it fit snugly. Cotton batting may be used satisfactorily for padding, and when this is completed, baste or carefully pin the lining in the back, and the form is ready for use.

> One complete sleeve may be made, fitted and then stuffed with the cotton,

If there are two or more women in A standard on which to mount the the family, lining may be made for form may be bought for a small sum, each, and providing there is not too can mount it on a broomstick or a be used for all, though the padding

The woman who has had many disit may stand firmly. See that the couraging hours trying to make her height of the form, from waist to floor dresses look well, once she has used a form, will never try to sew again with

Michigan Farmer Pattern Service

Send 15c in silver or stamps for our up to date fall and winter 1920-1921 catalog, containing over 500 designs of ladies', misses' and children's patterns, a concise and comprehensive article on dressmaking, also some points for the peedle (illustrating thirty of the varineedle (illustrating thirty of the various simple stitches) all valuable to the home dressmaker.

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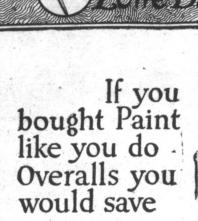
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medium size will require 6¾ yards of 27-inch material. Price 12c.

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Price 12c.

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money.

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Buy your Tea and Coffee from us, parcel post pre-paid. We offer Old Colony Blend roasted daily at paid. We offer Old Colony Blend roasted daily at the following prices which will prove to you value of buying by mail. 3 lbs. for \$1.00, 10 lbs. for \$3.20. Or start a Coffee Club, we will mail you four 3 lb. packages of "Old Colony Blend." for \$3.80 5 lbs. of Choice Black, Mixed or Green Tea \$2.50. Order today, try it and if not pleased we will refund your money in full. Send check or M. O. State if you want Coffee ground.

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COATS -- ROBES Best result from large spready cow hides for COATS

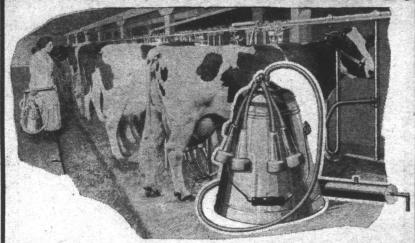
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ROBES from all colors in the nat-ural color. Cataloges, circu-lars, lining samples free.

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Has the Famous "See-Thru" Teat Cup

An exclusive feature of all United Milkers. One piece, transparent, clear as a crystal. Tell at a glance what each teat is doing. Rubber top and pump pulsator action, giving complete vacuum release on teat—imitates nose action of calf. Cows like it and let down their milk freely.

Ask Your Dealer or Write to Us United are furnished in units for five cows or more. Your dealer will give you complete information or write to us. All United products are guaranteed. They must make good or we will. Investigate now.

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BOOK ON DOG DISEASES And How to Feed

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Trained American Fox Hounds Rabbit and Skunk dogs all ages. Send stamp.
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THE JOSEPH & FEISS CO.



BUY FENCE POSTS direct from for-

Our Boys' and Girls' Page

Getting the Right Start

By Uncle Ed

everybody.

perhaps six hundred people in the vil- boys and girls, as soon as the boys lage and the surrounding community. It used to be until quite recently a very dull, slow-going place. Then some boys and girls thought up the plan of having a pig club. The girls were just as much interested as the boys in the plan, and they took just as good care as the boys did of their little porkers. And because the young folks were interested, the old folks were, too. New life came into the homes all round that village. Not long ago they had a great day for the boys and girls. The pigs were brought in and all the folks in the town gathered together to look at them and see which was the best. The result was that a spirit of enthusiasm has taken possession of everybody. Even the people in the churches seem to feel the difference and are working together unitedly for the best good of the people. And it all came about through the Boys' and Girls' Pig Club. I wonder if the pigs do not know the difference, too, and feel like doing their best for their little masters?

Better Than a Pig Club.



Cup presented by the Michigan Bankers' Association for the state corn club champion, which was won for 1920 by Forest Beddell, of Flint, Gen-esee County.

have not spoken of the best part of it all. The young folks took a great deal of comfort growing their pigs, and surely the pigs must have felt more comfortable, being fed and washed and groomed so well. The club brought some more money into the homes of those who had them to sell; but the fire in the hearts of the boys and girls awakened by this new enterprise was the best of all. You cannot tell how much better farmers the boys will be, and surely the girls will be better home-makers than they would if they never had been members of the pig club; for you cannot do any one thing well, without being affected for the better in every other way. Some of the boys who raised the pigs may not be farmers; they may go into other lines of business, but whatever they do, they will do it more successfully because of their experience growing fine pigs. And this is the way the world gets to be

A Boy's Lamb.

The first money a boy I know of ever had was a five-dollar gold piece, and he received it from a man who

GOOD story comes to me from bought a lamb he had. The way it 'way out in California and I will came about will interest you. The pass it on to our boys and girls, boy's grandfather kept a good many because I am sure it will be helpful to sheep, and he had seven boys and girls of his own. As these children one af-There is a little town out there of ter another married and came to have



Theodore Stenson, of Covington, Baraga County, wins the cup offered by the Michigan Potato Growers' Association for the second year.

In speaking of the Boys' and Girls' were old enough to care for it, the Pig Club in the California town, we grandfather gave them a nice ewe lamb for their own. This boy whose lamb brought him the five dollars took fine care of his lamb and finally it had a lamb of its own. That was the one that was sold. Since then lambs have sold for a good many dollars more than he got for his. But this gave the boy his start. He opened up a savings bank account and put the shining gold piece in as his first deposit. In after days he had quite a nest egg, all gained from the lambs the first ewe raised and the wool which was sheared from them. But the money was not the chief thing. The boy had a great deal of joy caring for his sheep. I am sure it gave him a better outlook on life to have this interest in sheep.

A Little Dog and a Shop.

The principal of the academy where I used to go to school when a young man had a story he liked to tell us about two boys, one of whom spent all his spare time training a little dog to do tricks. The dog got so it would do a good many pleasing things, but the boy never did anything very wonderful in later life. He wasted his time



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playing with his dog and lost many a chance to do things that were really worth while.

ments working in a shop and he got so he could use all kinds of tools, so that when his course in the academy was done he was able to go out and get a place as a mechanic. Little by little he advanced until he finally became a master workman in his chosen field. The professor's lesson for us boys was the value of time well spent as compared with hours frittered away.

All Work-No Play.

with the young folks on the farm? Oh, no! To make the life the best possible there must be a combination of fun and business. A good many things we do have the quality of interesting us while they have something of profit about them. There is a public market not far from where Uncle Ed lives. Three times a week the farmers from the surrounding country bring in all sorts of things for the folks of the town of eleven thousand to buy. One hold the necessary trays. day this week a couple of boys came for five dollars each. That started other boys, and they say they will fords them a great deal of pleasure, moisture. besides adding something to their treasure of money. The best kind of THE WORLD'S GREATEST CANAL life is the all-round life, some work, some study, some sport.

You Be the One to Start.

might.

STRONG CHICKS THRIVE.

N raising chicks it is very discouraging to start ing to start out with a flock containing many puny specimens. They do not thrive under the best of care and a high mortality rate is apt to result. Thrifty chickens have bright beady eyes. They are alert and stand in a sturdy manner. The shanks and toes are not weak and spindly but well built and suggest vigor. The beak of the vigorous chick appears short and

long and broad backs and the fluff is clean and rounded. They are the kind mediately show the results of good food by growing rapidly. The wings about the brood coop and try to stay of which a substantial amount is still under the hen at all times. If artiheld. ficially brooded they are the type that hugs the source of heat.

When once obtaining a flock of strong chicks a very high per cent of The official bulletin of the Stamare followed. In buying day-old chicks Iron county, announces a project for it pays to try and obtain stock that stocking local lakes with fish. Through men who run incubators seem more Bureau and the Bureau of Fisheries of vigorous chicks. Much of their suc- pike, brook trout, pickerel, and lake ing stock. We find that eggs from spring at Stambaugh. Lakes Chicagoyear-old and two-year-old hens produce an, Indian, Hagerman, Brule, Camp and plumper and stronger chicks than eggs Golden will be planted, and also some the production of hatching eggs.

HOME-MADE OAT SPROUTER.

I would like to know how to make a The other boy spent his spare mo- home-made oat sprouter. E. B.

An oat-sprouter can be made by building a rack and several wooden trays which will slide into the rack. The oats should be soaked two days in pails of warm water and then spread out on the trays to the depth of an inch. The oats will sometimes mould but this can be prevented by placing ten drops of formalin in each pail of water in which oats are soaked. The wooden trays in the oat sprouter can But shall it be all work and no play also be sprayed to destroy mould.

The oats must be sprouted in a room that is sufficiently warm for plant growth at all times. Poultry keepers who do not have such a room conveniently situated often buy the commercial oat sprouters which are heated with a lamp. There are many styles of them advertised in the poultry journals. Oat sprouters can be made of any size, depending upon the needs of the flock, by simply making the rack to

One commonly used sprouting rack bringing two raccoons and sold them, is made seven feet high and two feet square. It can contain seven trays. The temperature in the room should have raccoon on the market next time not be less than sixty degrees F., and they come. The boy will have plenty the oats should be about ready to feed of fun hunting their raccoons, and on the seventh day. A square inch of there will be some money in it for them the growth per bird per day is comafter all. Boys and girls who have be- monly advised. Oats that are sproutlonged to a pig club or a calf club or ing must be thoroughly sprinkled anything of the sort know that it af- twice a day as they require much

TRAFFIC.

The annual report of the Lake Car-"There are no clubs of any kind riers' Association, just received from near my home." It may be some of their Cleveland office, makes possible our young people say that. Why not, an interesting comparison of the trafthen, be the one to start something fic passing through the Panama, the along this line? Think it over, talk Suez, and our own St. Mary's Ship with father and mother and see what Canal. We pride ourselves very much they think would be most apt to win on the Panama Canal-and its great out. Then go round and interest your work. But here are the figures: The chums in it and push it with all your freight passing through the St. Mary's Ship Canals, in 1920, was 79,282,496 short tons, most of which went through the American Canal. The 1920 figures for the Panama Canal are 9,374,499. The 1919 figures for the Suez Canalthe latest at hand—are 16,013,802 tons. That indicates the relative importance of the three canals in the world's commerce. And yet when the question of making a land grant in aid of the Michigan big ditch was up before congress, just after the Mexican War, there were some who doubted that there would ever be enough traffic to make it pay; but from the time the St. Mary's Ship Canal was opened in 1855 it has been enormously important in the develop-Good quality chicks have medium ment of northern Michigan and the great northwest. In aid of its construction the United States granted to of birds that scratch and sing and im- the state of Michigan in 1852, 750,000 acres of land, which, in turn, was turned over to the company which built the stay close to the body as if the bird canal as payment for the work. Of had the strength to keep them neatly this land grant, the company selected folded. Weak chicks are apt to lag 252,000 acres in the upper peninsula,

PLANTING FISH.

them can be raised if proper methods baugh Township Development Bureau, correspond to the vigorous type. Some the cooperation of the Development skillful than others in obtaining plump Washington, D. C., a consignment of cess is due to the quality of the breed- trout is to be received in the early from pullets. Hens that have been streams. The Stambaugh Township heavily fed for winter eggs do not pro- Development Bureau is publishing a Horse, Cow and duce as thrifty chicks as the hens periodical bulletin which, among other which have had their vigor saved for things, lists farmers with live stock and produce to sell.



THE Aultman-Taylor 30-60 is a huge, rugged machine built with the brute strength to handle the biggest power jobs. Road building is one of them.

The 30-60 is the acknowledged "King of Road Builders." It has hammered down road building costs to the very last cent all over the country. This powerful tractor and its smaller brother, the 22-45, will build more miles of road in a given time than any other power -- and at an astonishingly low operating cost.

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Save Your Ear Corn Think of the time and labor this machine saves. No hand husking-fill

your silo as you have time. Save your ear corn to feed or sell as you like. You save enough in a year to more than pay for a

Jenney Silo—Filler—Husker Just send for these two FREE BOOKS and see what other farmers say. Many have saved from \$700 to \$3000 in a single crop. This new way of handling the corn crop not only saves money, but is a big labor and time saver.





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\$650 Secures 62 A. With

Fodder, etc., near large RR. town. rich dark loam soil, wire fenced pasture: 1.000 cords wood, variety fruit, snug house, 2 barns, piggery, sil \$1300 casy terms. See page 48. Illus. Catalog Bargains, 33 states. STROUT AGENCY, 814 BO Ford Bldg., Detroit, Mich.

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We have for sale; 15000 acres of fine unimproved lands, well located, joining well settled locality, on easy terms. A tract of 160 acres, 5 miles from Gladwin, on daily mail route, all fenced with woven wire, 20 acres under fine state of cultivation. 6 acres in fruit. A Sheep Ranch of 510 acres, all fenced, well grassed over, living water, 70 acres cleared, 30 acres under fine state of cultivation with fruit, good buildings, 250 head of sheep. 4 stock ranches well grassed, fenced and watered with living water. watered with living water.

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160 acres fertile land within one mile of town. Good buildings, barns to house, 100 head of stock and feed for same. Will rent on share for term of years to good dairyman or stock man who can finance one-half of herd of 20 to 30 cows and furnish teams and tools. Address Box J115, care of Michigan Farmer, stating experience and financial ability in first letter.

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Overlooking beautiful bay: 10 acres in famous resort section: on good road, near beach, convenient city; 8 acres tillage, ideal vegetables and tropical fruits; oranges, gnavas, etc.; artesian well; owner unable occupy, makes low price \$1,000, easy terms. Details page 55 Catalog FREE. STROUT AGENCY, 1210 E. T. Graham Bldg., Jacksonville, Fla.

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120 acre Farm sandy loam clay bottom good soil to raise any kind of crops. Large house with basement, good well, large barn, metal lined granary, silo, Will sell with or without stock and machinery. So dollars per acre. Requires down payment of three thousand dollars. Edward Hesse, 1996 Gratiot Ave.. Detroit.

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120 acres Kent County, Mich on State Highway, has lake frontage, soil level and fenced. Good two story, house, two barns, silo and tool shed. Price \$100, per acre—one half cash, balance reasonable terms. This ad will appear but once. Ac Michigan Farmer, Detroit, Mich.

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For Rent. 350 Acre farm on shares at Pert Hope, Mich. Good house, hog house, two large barns with basement and running water, large silo, level heavy soil. Write C. R. SMITH, Niles, Mich.

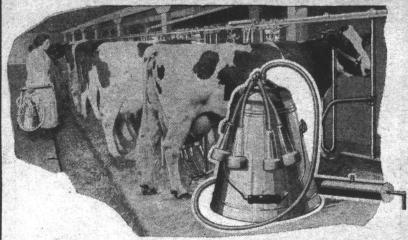
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Por Sale 40 acres all under plow, 2 horses, 1 cow, 3 hogs, flock of chickens, all farm tools. Good buildings. Orchard. A bargain at \$2300. Easy terms. Writings. Orchard. A bargain at \$2300. Easy terms. Writings. JOHN CONANT, Grand Haven, Michigan

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O. K. HAWLEY. Baldwin, Wisconsin.

Small Farm For Sale or Trade near town. Willis Bradley, Bedford, Va.

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Dept. 37

Lansing, Mich.

(30)



Getting the Right Start

Our Boys' and Girls' Page

By Uncle Ed

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Wisconsin. If for a orange of thinking of buying good ands where farmers grow rich, send at once for this special rof LANDOLOGY. It is free on request. Address

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One commonly used sprouting rack bringing two raccoons and sold them, is made seven feet high and two feet square. It can contain seven trays. other boys, and they say they will The temperature in the room should have raccoon on the market next time not be less than sixty degrees F., and they come. The boy will have plenty the oats should be about ready to feed of fun hunting their raccoons, and on the seventh day. A square inch of there will be some money in it for them the growth per bird per day is comafter all. Boys and girls who have be- monly advised. Oats that are sproutlonged to a pig club or a calf club or ing must be thoroughly sprinkled anything of the sort know that it af- twice a day as they require much

TRAFFIC.

The annual report of the Lake Car-"There are no clubs of any kind riers' Association, just received from near my home." It may be some of their Cleveland office, makes possible our young people say that. Why not, an interesting comparison of the trafthen, be the one to start something fic passing through the Panama, the along this line? Think it over, talk Suez, and our own St. Mary's Ship with father and mother and see what Canal. We pride ourselves very much they think would be most apt to win on the Panama Canal-and its great out. Then go round and interest your work. But here are the figures: The chums in it and push it with all your freight passing through the St. Mary's Ship Canals, in 1920, was 79,282,496 short tons, most of which went through the American Canal. The 1920 figures for the Panama Canal are 9,374,499. The 1919 figures for the Suez Canalthe latest at hand—are 16.013,802 tons. That indicates the relative importance of the three canals in the world's commerce. And yet when the question of making a land grant in aid of the Michigan big ditch was up before congress, just after the Mexican War, there were some who doubted that there would ever be enough traffic to make it pay; but from the time the St. Mary's Ship the vigorous chick appears short and Canal was opened in 1855 it has been enormously important in the develop-Good quality chicks have medium ment of northern Michigan and the great northwest. In aid of its conclean and rounded. They are the kind struction the United States granted to of birds that scratch and sing and im- the state of Michigan in 1852, 750,000 mediately show the results of good acres of land, which, in turn, was turned over to the company which built the stay close to the body as if the bird canal as payment for the work. Of had the strength to keep them neatly this land grant, the company selected folded. Weak chicks are apt to lag 252,000 acres in the upper peninsula, about the brood coop and try to stay of which a substantial amount is still

PLANTING FISH.

and produce to sell.



THE Aultman-Taylor 30-60 is a huge, rugged machine built with the brute strength to handle the biggest power jobs. Road building is one of them.

The 30-60 is the acknowledged "King of Road Builders." It has hammered down road building costs to the very last cent all over the country. This powerful tractor and its smaller brother, the 22-45, will build more miles of road in a given time than any other power--and at an astonishingly low operating cost.

Build More and Better Roads

can save 50% and in some cases 75% in road building costs. build double the amount of road and build it better by using Aultman-Taylor Road Building Tractors.

Thousands of Aultman-Taylor 30-60's

Compared to horse labor, you and 22-45's are being used by township trustees, highway commissioners and other road officials with unvarying success in practically every state in the Union.

> Decide now to order an Aultman-Taylor Road Building Tractor and build more-and better roads.



The Aultman & Taylor Machinery Co. Mansfield.



Think of the time and labor this machine saves. No hand husking—fill your silo as you have time. Save your ear corn to feed or sell as you like. You save enough in a year to more

than pay for a Jenney Silo—Filler—Husker Just send for these two FREE BOOKS and see what other farmers say. Many have saved from \$700 to \$3000 in a single crop. This new way of handling the corn crop not only saves money, but is a big labor and time saver.

Write for These Two Free Books Find out why STOVER SILAGE
will winter cattle at
half the cost of corn
silage, thus saving the
ears to feed or sell.
A postal today brings
them. The Hall Mfg Co. Dept. Cedar Rapids, la.



The OTTAWA Log Saw does 10 to 15 men's work.
Strictly a One-Man Outfile Runs belt machinery. Over 4 H-9.
Strictly a One-Man Outfile Dans belt machinery. Over 4 H-9.
Strictly a One-Man Outfile Dans belt machinery. Over 4 H-9.
Strictly a One-Man Outfile Dans belt Send Now!
OTTAWA MFE. CO., 1501 Wood St., Ottawa, Kans.

Fodder, etc., near large RR. town. rich dark loam soil, wire fenced pasture 1,000 cords wood, variety fruit, snug house. 2 barns, piggery, all \$1300 easy terms. See page 48. Ilins. Oatalog Bargains, 33 states. STROUT AGENCY, 814 BO Ford Bldg., Detroit, Mich.

Farms and Farm Lands McClure-Stevens Land Co.

We have for sale; 15000 acres of fine unimproved lands, well located, joining well settled locality, on easy terms. A tract of 180 acres, 5 miles from Gladwin, on daily mail route, all fenced with woven wire; 20 acres under fine state of cultivation. 6 acres in fruit. A Sheep Ranch of 310 acres, all fenced, well grassed over, living water, 70 acres cleared, 30 acres under fine state of cultivation with fruit, good buildings, 250 head of sheep. 4 stock ranches well grassed, fenced and watered with living water. watered with living water.

McCLURE-STEVENS LAND CO. Gladwin, Mich

High Class Dairy Farm For Rent

160 acres fertile land within one mile of town, Good buildings, barns to house, 100 head of stock and feed for same. Will rent on share for term of years to good dairyman or stock man who can finance one-half of herd of 20 to 30 cows and furnish teams and tools. Address Box Jils, care of Michigan Furmer, stating experience and financial ability in first letter.

\$250 Secures Farm With Cozy Dwelling

overlooking beautiful bay: 10 acres in famous resort section: on good road, near beach, convenient city: 8 acres tillage, ideal vegetables and tropical fruits; oranges, guayas, etc.; artesian well; owner unable occupy, makes low price \$1,000, easy terms. Details page 55 Catalog FREE. STROUT AGENCY, 1210 E. T. Graham Bldg., Jacksonville, Fla.

FARM BARGAIN

120 acre Farm sandy loam clay bottom good soil to raise any kind of crops. Large house with basement, good well, large barn, metal lined granary, sile, will sell with or without stock and machinery, 85 dollars per acre. Requires down payment of three thousand dollars. Edward Hesse, 1996 Gratiot Ave., Detroit.

FARM FOR SALE

120 acres Kent County, Mich. on State Highway, has lake frontage, soil level and fenced. Good two story house, two barns, silo and tool shed. Price \$10,00 per acre—one half cash, balance reasonable terms. This ad will appear but once. Address owner, care Michigan Farmer, Detroit, Mich.

VIRGINIA FARMS AND HOMES FREE CATALOGUE OF SPLENDID BARGAINS. R. B. CHAFFIN & CO., Inc., Richmond, Va.

For Rent. 350 Acre farm on shares at Pert Hope, Mich. Good house, hog house, two large barns with basement and running water, large silo, level heavy soil. Write C. R. SMITH, Niles, Mich.

Farms and Homes in Delaware where the lands productive and prices reasonable. For inform ation write, State Board of Agriculture, Dover, Del

Por Sale 40 acres all under plow, 2 horses, 1 cow, 3 hogs, flock of chickens, all farm tools. Good buildings. Orchard. A bargain at \$2300. Easy terms. Writings. Orchard. A bargain of Grand Haven, Michigan

WANTED To hear from owner of farm or unimproved land for sale.

O. K. HAWLEY. Baldwin, Wisconsin,

Small Farm For Sale or Trade near town. Willis Bradley, Bedford, Va.



Michigan's Largest Pedigree Poultry Farm

Lakewood's Peerless Layers

The quality of chicks depend upon the records of their ancestors. Official records from 200 in 9 months to 310 eggs in one year. Write for

Leghorns, Rocks, Reds, Wyandottes Lakewood, Farm, Box B, Holland, Mich.

Hubers Reliable Chicks-700,000 For 1921.

By Parcel Post Prepaid. By Special Delivery. Guarantee Live Delivery. Eggs for Hatching by Setting or 100.

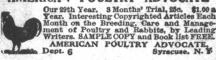


ing by Setting or 100.

We have installed the most modern features of the Hatching Iudustry, which will insure chicks as atrong as Hen Hatched Chicks and full of pep. This is our 12th season. With the great increasing demand for our chicks and the fine Testimonials, Photos, Show Reports and Wonderful Egg Records we receive from our customers proves that our chicks from stock of Good Quality, Bred for Heavy Egg Production and that they are Properly Hatched. To insure success buy our Reliable Chicks. We hatch all our chicks from pure bred, free range farm stock. S. C. White and Brown Leghorns, S. C. Anconas, Barred Rocks, R. C. and B. C. Reds, S. C. and R. C. Buff Orpingtons, S. C. Black Minorcas and White Wyandottes. Special combination offer on chicks and brooder stoves. Before buying elsewhere send for illustrated catalog and prices. Place order atonce and avoid disappointment in the rush of the season.

Hubers Reliable Hatchery, East High St., Fostoria, Ohio.





POULTRY

Chicks Baby Chicks

Sing e Comb White Leghorns a Specialty

We are not running a hatchery but have the largest most up-to-date poultry plant in Michigan. All the eggs that go into our incubators are produced on our own farm from our high producing winter

We cull our flocks 3 times, 1st in early fall, 2nd just before winter sets in and again before the breeding season. The regular hatchery man can not do this as he does not own the flocks but buys the eggs.

Our supply is limited therefore place your order early. Prices quoted on application.

Macatawa White Leghorn Co., Inc. R. 7, Holland, Mich.



BABY CHICKS

Ve furnish pure bred chicks of the mest quality from high egg producing book. Flocks built directly from lay-ng contest winners. We have seven-sen breeds. Write for our free illus-cated catalogue and price list. J. W. OSSEGE HATCHERY, Dept. 99, Glandorf, Ohio.

Anconas Bred-to-Lay and Exhibit, baby chicks and hatching eggs, Send for mating list. Manning's Ancona Farm. Coldwater, Mich





Handling the Incubator

By R. G. Kirby

R EGARDLESS of now long he may be the coop of the machine.

be in the business the poultry- their place in the machine.

When the lamp wick is fin man can never forget the pleasfirst hatch of downy chicks come from round the corners. After that do not ing made so efficient that it is not diffi- the burned portion each day with a cult to obtain good results. Farmers match. A pointed flame is not desirmore satisfaction in raising poultry by height from one end of the wick to the to care for the chicks.

have been improved more than incu- of running out of fuel. bators. In past years many failures When the machine is closed the night with artificial incubation were due to of the eighteenth day it must not be poor brooders. Poultrymen could opened until the hatch is completed. hatch chicks which they could not When all hatching appears finished raise. But now that good brooding and the chicks are dry the machine equipment is available the incubators can be opened. Take out the chicks are having little trouble in proving and remove all broken shells, eggs that their worth.

first hatch, mark on a calendar or make the glass door, if there is one, so that a chart showing the work that should the chicks will not peck at each other be done each day. The routine of man- but rest comfortably while spread out aging a machine will be learned during over the egg tray or the nursery. They the process of one hatch.

er than two weeks and the fresher moved to a brooder.

When the machine is upstairs much the lamps to go out at night. care is necessary to keep the temperature as uniform as possible and avoid THERE are three ways of running heavy walking and banging of doors. The temperature of an incubator cubator before starting.

middle of the tray and roil the others throughout the hatch. toward the center. Then replace the If the machine goes a few degrees eggs in the ends. This procedure caus- below one hundred for a few hours it

EGARDLESS of how long he may es the eggs to be constantly changing

When the lamp wick is first trimmed ure and satisfaction of watching his cut it straight across and slightly an incubator. And incubators are be- trim the wick with shears but rub off who do not own incubators will find able, so have one that burns at an even artificial hatching than with a large other. The best grade of kerosene obnumber of old hens. This is a fact, tainable will be the best investment. because brooders have been improved This gives the most heat and the least soot and odor. A reserve supply should The writer believes that brooders always be at hand to avoid the risk

failed to hatch, and crippled chicks. It pays to follow the directions of Return the good chicks to the machine. the maker of the machine. For the and hang a piece of paper in front of do not need any feed until forty-eight The eggs for the incubator should to sixty hours old. If fed before that be gathered often and stored where time bowel trouble is more apt to rethe temperature is between fifty and sult. If it is hard to keep down the sixty degrees. When eggs reach sixty- temperature in the machine, open the eight to seventy degrees a slow growth door slightly. Do not let the chicks will start. Then the temperature may overheat. We like to let the temperabe reduced, causing the germ to die. ture drop to about ninety degrees soon Eggs that are chilled will also fail to after the hatching is completed and hatch. Eggs should not be held long- while the chicks are waiting to be re-

they are, the better the chances of After each hatch, incubators should producing a large per cent of livable be thoroughly scrubbed with one of the commercial disinfectants or with The best location for an incubator is hot soda water. After a careful washin a cellar but a room where the tem- ing it pays to dry the trays in the sunperature is around fifty to sixty de-shine. The eld wick can be removed grees will be all right. The tempera- and the burner boiled in soda water to ture inside the machine is constantly remove gummy accumulations. A clean influenced by the outside air and if burner is easy to regulate. Some risk that is frequently changing in tempera- is avoided by placing a new wick in ture it will be difficult to regulate the the burner for each hatch. Sometimes incubator. There is less vibration on hatches have been injured when short a cellar floor than in an upstairs room. wicks failed to reach the oil, causing

Care should be taken to level the in- and we have had about equal success with each one. The first plan is to use 102 degrees the first week, 103 degrees E GGS must be taken out and turned the second week and 104 degrees the every twelve hours from the morn-third week. Another plan is to use ing of the third day to the night of the 1021/2 degrees the first week, 103 deeighteenth day. The time of cooling grees the second week and 1031/2 decan gradually increase as more animal grees the third week. The other plan heat is produced in the eggs. Return is to try and keep the thermometer at them to the machine as soon as touch- 103 degrees throughout the hatch and ing an egg to the eye proves it is cool, let it go at that. The results will be It is not necessary to turn each egg good if other conditions are right and separately. Remove a few from the the machine stays at 103 degrees



White Holland Turkeys, Owned by Mrs. Edward Colling.

Biggest Hatches Strongest Chicks

That's what you'll get with my Hatching Outfit, and I can prove it. My new Poultry Book, "Hatching Facts," tells the whole story—gives newest ideas and easiest ways to make poultry pay—it's Free—write for it today. Learn the many advantages my Belle City has over the "old hen way," and the big money folks make using my

\$15⁹⁵ 140-Egg Champion **Belle City Incubator**

Double Walls Fibre Board—Hot-Water Copper Tank—Self-Regulated Safety Lamp Thermometer & Holder—Egg Tester—Deep Nursery, \$9.95 buys 140-Chick Hot-Water Double-Walled Belle City Brooder. Or save \$1.95 by order. \$2395 ing Both together for only

Express Prepaid East of Rockies And allowed to points beyond. I ship quick from Buffalo, Minneapolis, Kansas City or Racine.





POULTRY



Sent Prepaid by Parcel Post Special price on 1,000 lots. Get your order in for some of these high grade chicks, hatched from selected bred-to-lay breeders, kept on free

WE GUARANTEE SAFE DELIVERY WYNGARDEN'S HATCHERY ZEELAND, MICH.

Stop! Look! Listen! Chicks, Quality Chicks

S. C. W. Leghorns, \$15.00 per 100; S. C. B. Leghorns, \$17.00 per 100; English S. C. W. Leghorns \$17.00 per 100; S. C. Ancons \$17.00 per 100; S. C. Barred Rocks \$18.00.

Send Your Order to the

City Limits Hatchery and Poultry Yard,



Baby Chicks from fine stock, to produce eggs, at utility prices. Catalogue FREE.

Lee's Poultry Farm & Hatchery. Edison, O.

need cause no alarm. Simply bring it back as soon as possible. But if it goes up to 106 degrees or more it may cause serious trouble. Our plan is to adjust our machines so they will never overheat and take a chance on the danger of cooling down. This is better than insuring plenty of heat and running a risk of far too much. We do this because the eggs that cool down for a short time do not seem to suffer injury. But the eggs that overheat are quite certain to produce a lot of weakly chicks or not hatch at all. Near the end of a hatch the machine may often run up to about 104 or 105 degrees because of the large amount of animal heat in the eggs but this causes no trouble. Never open the machine to cool it down even if it does seem several degrees too warm while the chicks are hatching.

We do not know which is the best incubator. A lot of them work nicely. The more expensive makes can naturally be expected to last longer. Some of them have fireproof features which are practical. Sometimes second-hand incubators can be purchased at low prices and if they are in good condition they give good results. Some breeders have made their own incubators. We do not advise this if time is very valuable, as then good machines can be purchased for less than they can be made. Even then the homemade machines may not be properly insulated and protected from fire risks. An incubator is not a complicated ma chine. It is built on the principal of a box which can be heated and ventilated. The eggs are placed in the box and the operator tries to successfully imitate the old hen. Even one small incubator can be made a profitable farm flock builder and made to pay large interest on the investment.

CURING SCALY LEG.

I have several spring chickens that have heavy scales on their legs. Would you please tell me what treatment should be used? What is the cause of

Menominee Co. H. E. The scales on the legs of your poul try are caused by the scaly leg parasite which burrows under the scales of the legs and causes the rough appearance. The legs can be washed with warm soapy water. This will loosen up the encrustations. Then remove as much as possible and rub the legs with kerosene oil to kill the parasites: This condition occurs most often among old hens and some cases may prove obstinate, but it is usually

ELIMINATING TUBERCULOSIS.

easy to cure.

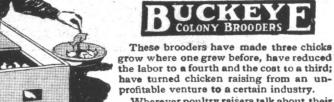
Please tell me what to do to get rid of tuberculosis among chickens, and what is the best disinfectant to use Hillsdale Co. B. C.

Any of the commercial coal-tar disinfectants are good for spraying poultry houses to help in keeping down disease. Chickens with tuberculosis cannot be cured and must be killed and burned immediately to help prevent the disease from spreading. It is a disease that can only be prevented by breeding from healthy vigorous stock and giving them the best of care in clean, dry and well-ventilated poultry houses. Any hen suspected of having tuberculosis must be removed from the flock at once. If hens are constantly dying from the disease it may be best to have a veterinarian inspect the flock and decide which are good for food. Then the flock can all be disposed of and the premises thoroughly disinfected and given a chance to rest a while before being used by poultry.

Plants build up the dead matter in the earth into higher forms, in which process they store up the heat and en-ergy of the sun. Animals eat plants, and set free the heat and energy which the plants have stored up. Plants grow that animals may live that animals may live.



hy Let Them Die? THOUSANDS apon thousands of baby chicks die because of improper brooding. Why should you let these dollars slip through your hands when you can obtain



Wherever poultry raisers talk about their success, there you will find Buckeye users. Buckeye Colony Brooders have taken the risk out of the business, and a hundred thousand users proclaim their merit. Ask the Buckeye User--He Knows!

Burn coal or kerosene. Self-regulating, sanitary and economical. Endorsed by experimental stations, agricultural colleges and county agents everywhere.

Send a postal for a Buckeye catalog that tells why Buckey uipment makes poultry raising profitable. why you run risks in its use and why it is universally recommended.

The Buckeye Incubator Co. 440 Euclid Avenue Springfield, Ohio

Baby Chicks Pure Bred 800,000 in 1921

To your door prepaid by us Guaranteed live delivery. We have the most modern methods of hatching and shipping methods and we ship you nothing but the best, our stock is of the standard ship you nothing but the best, our stock is of the standard Free range bred for heavy egg laying quality and our chicks are strong and healthy and will develop very rapidly. We have the following breeds S. C. White, Buff and Brown Leghorns, Anconas, W. and B. Rocks, R. C. and S. C. R. I. Reds, B. and W. Orpingtons; W. Wyandottes. Get our big bargain offer in CHICKS and BROODERS and save money on your

ORDER and Maturity of your flock. Circular FREE.
WOLF HATCHING & BREEDING CO., Dept. M, Gibsonburg, Ohio.

B-A-B-Y-C-H-I-X

Crescent Strain S. C. White Leghorns
Black Leghorns, Brown Leghorns, Buff Leghorns,
Black Minorcas, Rhode Island Reds, Barred Plymouth
Rocks, (also White), Wyandottes, (Silver laced and
White) and Mottled Anconas. WE HATCH eggs from
flocks on range on separate farm. Send for booklet,
containing much of value to poultry raisers.

CRESCENT EGG COMPANY, Allegan, Mich.

CHICKS THAT PAY! Insure your success this year with Mid-West Chicks. Reds, Wyandottes, Leghorns, Anco-nas, Minoreas, Orpingtons. Live arrival guar-anteed anywhere East of the Rockies. Write sow for catalog. Frank B. White, Pres.

MID-WEST HATCHERIES ad Office: 655 Ft. Dearborn Bank Bldg., Chicago, Ill.

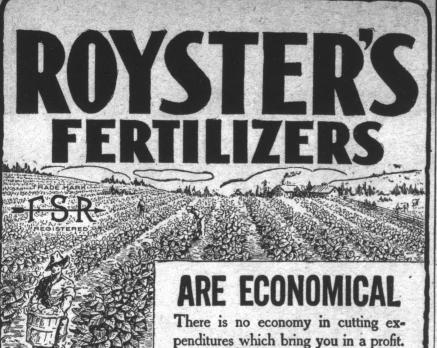
Baby

LOOK! 1,000,000 for 1921.

Postage PAID. 95% live arrival guaranteed. FREE feed with each order. 40 breeds chicks, 4 breeds ducklings, Select and Exhibition grades, 4 hatch every week all year. Book your order NOW for early spring delivery. Catalogue free. Stamps appreciated.
NABOB HATCHERIES.

Barred Rocks egg contest winners, eggs from strain with records to 290 a year. \$2.00 per setting prepaid by P. P. Circular free. FRED ASTLING, Constantine, Mich

Additional Poultry Ads on Page 283







1506 No. Pitcher St.



Wire Fencing Farm, Stock and Poultry Fencing di-rect from our fac-tory to you. Our new reduced prices will save you money. Write for our Farm Fencing.

Sears, Roebuck and Co. Chicago, Philadelphia

GOMBAULT'S CAUSTIC BALSAM

That is extravagence. Royster's

Fertilizer economizes for you by mak-

ing your land and your labor produce

Agents wanted in unoccupied territory

F. S. Royster Guano Co.

Dept. B-19

TOLEDO, OHIO

larger, finer, surer yields.

The Perfect Liniment For External Use on

The Human Body

It is astonishing how quickly Caustic Balsam relieves Stiffness and Lameness, Rheumatism, Neu-ralgia, Strains, Sprains, Lumbago, Backache, Sore Throat, Chest Cold, Stiff Joints, etc.

Serious results through Blood Poisoning are liable from scratches, cuts or wounds from rusty nails or other metal. This great rem-edy applied at once will prove a preventive, is a perfect antiseptic, soothes while it heals. What it has done for others it will do for

Write us for any information desired. \$1.75 per bothle at druggists or sent parcel post on receipt of price.

THE LAWRENCE-WILLIAMS CO. Cleveland, Ohio



Ky. Tobacco Fine long leaf: 1919 crop, 3 lb. sample stancock Leaf Tobacco Assn., Dept.X, Hawesville, Ky.

A Farm Workshop

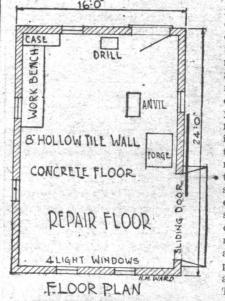
By Harley M. Ward

out one. In a great many instances more earned, to say nothing of saving wise of very little value, into a modern farm crop which otherwise would suftools and equipment and the cost will were favorable. be comparatively small.

of course, will vary, this depending a good investment as it has already done and the equipment. Our work- past few years. shop is 16x24 feet and contains overhead storage room where we keep lumber and other necessary supplies. By this arrangement much valuable space is saved and gives us plenty of room to do our work on the lower floor, where we have a work-bench, forge, sula. These include a recommendation and other necessary equipment.

resisitng, non-conducting cellular walls. and immunity from the deteriorating influences of decay.

It is not necessary to have a full equipment of tools in a farm work-



at least: A good hatchet, hand saw, rip saw, steel square, a good plane or two, set of chisels, a good brace and set of bits, set of taps and dies, a good ax, some tongs, and a good blacksmith's hammer. The above will do to start with and other tools can be bought from time to time as the need

A great many farmers have special talent along this line. Some have been mechanics at some time or another,

mattocks, replace mower knives and be taken into consideration in choospecially when something breaks. In a the breed.

GOOD workshop is, without any few hours' time we generally have the doubt whatever, a valuable asset broken part mended and oftentimes to any farm, and in consideration are at work before we could make a of the slight cost of putting up such a trip to the village blacksmith shop. building and equipping it with a few Aside from this we perhaps save a tools, no farmer can profitably do with- day's wages, which is just that much we can convert an old building, other- a lot of hay or some other valuable workshop which will hold all necessary fer if not attended to when conditions

Our workshop, while not large, is a The proper size of such a building, great saving in time and labor and is greatly on the amount of work to be saved many times its cost during the

WANT GAME PROTECTED.

NUMEROUS recommendations have been made to proper officials in relation to game in the upper peninthat the Public Domain Commission co-The walls are constructed of hollow operate with the United States Detile, which we have found to be ideal partment of Agriculture in the exterfor the purpose. It possesses distinct mination of the timber wolf and other advantages, such as permanence, fire. predacious animals; that bounties for the destruction of predacious animals be abolished in favor of the employment of salaried trappers and patrolmen; that firearms carried in automobiles be unloaded and, if possible, takshop, but we must have the following en down or closed; that there be a fiveyear closed season on otter, fisher, marten and mink; that the protection of spruce hen and prairie chicken be extended four years; that the last fifteen days of October be opened for moose hunting on Isle Royale in Lake Superior; that a license of \$1.00 for rod fishermen be required, with an exemption for fishermen under sixteen years of age; that a limit of twentyfive fish be required for one day's fishing; that the fees accruing from this tax be used by the Michigan Fish Commission in its work of propagation; that unless the Michigan Fish Commission erect a hatchery on the Otter river, the catching of grayling there should be permitted; that a one-buck deer law be enacted; that the kill of rabbits be limited to five in one day and fifty during the season; that the partridge season for 1921 be closed and then opened in alternate years. The Tribune-Gazette of Iron Mountain, urges its readers to cooperate with Game Commissioner Baird, of Lansing, in providing information in regard to the present game situation in the upper peninsula and recommendations for state action hereafter. - CHASE.

HILLSDALE COUNTY BREEDERS ORGANIZE.

A MEETING of the Holstein breeders of Hillsdale county was held in the city hall at Hillsdale on January mechanics at some time or another, 14, and the Hillsdale County Holsteinwhile others are quite handy with tools Friesian Association was organized,
and in this way a great many dollars with Mr. J. Hagaman, of Hillsdale, as
can be saved in the course of a year president, and Mrs. Kurt W. Rhead,
which otherwise would be paid out of
the farm profits for the different repairs arising from the constant use of with pedigrees, as well as a good indexpairs arising from the constant use of with pedigrees, as well as a good judge the farming equipment. A farm workshop is a good investment because, on the average farm, it will pay back to be willing to devote considerable time the average of its construction. the average farm, it will pay back to be willing to devote considerable time to the association work and this is the and equipment in the course of a year.

We keep on hand a stock of bolts of different sizes and lengths, as they are because the officers do not devote sufficient time to the work and this is no fault of theirs either as they are also the year. In our shop we are able to fault of theirs either, as they are almend harness, sharpen harrow teeth, ready overloaded with work at home. mattocks, replace mower knives and harness, they are almend harness, sharpen harrow teeth, However, this is a matter which should broken parts, make singletrees, fix ing officers for the county associations, horseshoes, and many other small jobs and especially in the selection of the that often run up in many dollars in secretary, upon whom the most of the selection of the the course of a year. This work is ready joined the organization, and if usually done on rainy days or during the plans work out according to schedthe winter when our work is not rushing. However, it is in the busy season that the workshop is appreciated, especially when something breaks. In a the breed.

Every bag of Ross' Eureka

Corn bears this trade-mark. Adopt-

ed for your

protection.

These Seven Cows

Fed Thirty Pounds Each of Silage, Every Day, for Over One Year, from the Product of One Acre of Ross' Eureka Corn

64 tons of Ross' Eureka Corn to the acre is the yield reported by Mr. Reynolds. Read his letter—it is convincing proof of Eureka Corn's superiority over all other Silage Corns.

THE COMMONWEALTH OF MASSACHUSETTS WORCESTER STATE HOSPITAL

Worcester, Mass., December 18, 1920.

Ross Bros. Co.

Gentlemen: Replying to yours of Dec. 16th, relative to the manner in which we arrived at the weight of the crop of Eureka Ensilage Corn, will say it is our custom to weigh each load as it is delivered at the cutter. The immense tonnage at this time caused some question, so average rods representative of the best acre were taken in the presence of reliable witnesses, were cut and weighed, and the result was as reported 64 tons to the acre.

I have in my possession some photographs of our field of Eureka Corn show-ing Corn 18 to 20 feet high, which would convince the most are possible with this variety.
Yours truly,
(Signed) J. F. Reynolds,
Farm Supt. skeptical that astonishing results

Worcester State Hospital.

The product from one acre of Mr. Reynold's crop would nearly fill a silo 24 feet high and 14 feet in diameter. Two acres would fill a silo 30 feet by 14 feet, and

Ross' Eureka Corn is being planted in nearly every section of the United States and Canada. and in several foreign countries. Under any climatic conditions its yields are big, and the quality is always the best.

Ross' Eureka Corn is very short jointed and does not blow down easily—it grows taller—has more leaves-and produces more tons of good, sweet silage than any other variety. Palatable and nutritious, it is a valuable feed for fattening cattle-and one of the greatest factors in reducing the cost of milk production.

Every bushel of genuine Eureka is put up in Ross' trade-mark bags. All seed is from selected ears, butts and tips removed and well fanned to remove any hull or waste material. Look carefully for the Ross trade-mark. Make sure it is on the bag before you buy your supply of Eureka Corn.

Buy Ross' Farm Seeds

Oats, Barley, Potatoes, Rye, Wheat, Buckwheat, Cowpeas, Vetch, Soy Beans, Essex Rape, and Field Corn, Grass Seed and Alfalfa. Early Fairmount Potatoes make extra heavy, high quality yields. Full line of agricultural tools, dairy groods inserticides atc. goods, insecticides, etc.

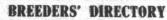
fill a silo 30 feet by 14 feet, and three acres would furnish enough silage to fill a silo 40 feet by 16 feet. Special offer, Betsy Ross Garden—17 large packages of highest quality vegetables, enough for the home garden, postpaid, for only \$1.00

Our 120-page catalogue will be mailed free if you ask for it.

ROSS BROTHERS COMPANY

37 Front Street

Worcester, Mass.



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

THE HOME OF

Imp. Edgar of Dalmeny

The World's Greatest **Breeding Bull**

Blue Bell, Supreme Champion at the Smith-field Show 1919, and the Birmingham Show 1920, is a daughter of Edgar of Dalmeny. The Junior Champion Bull, Junior Cham-pion Female, Champion Calf Herd and First Prize Junior Heifer Calf, Michigan State Fair, 1920, were also the get of Edgar of Dalmeny. A very choice lot of young bulls—sired by Edgar of Dalmeny are, at this time, offered

Send for Illustrated Catalogue

WILDWOOD FARMS ORION, MICHIGAN

W. E. SCRIPPS, Prop.

Sidney Smith, Supt.

Woodcote Trojan-Ericas

e are offering ten cows bred to either MP. ELCHO OF HARVIESTOUN, or IMP. EDGARDO OF DALMENY IM Write for our 1921 BULL SALE LIST Woodcote Stock Farm, Ionia, Mich.

DEGISTERED Aberdeen-Angus. Ten heifers, six Libuils from eight to fourteen months. Best of breeding, the growthy kind that make good. Reason-able. Inquire F. J. WILBER, Clio, Mich

CLOVERLY ANGUS

Cows and Heifers Bred to
Blackcap Brandon of Woodcote 2nd
For Bale
GEO. HATHAWAY & SON. Ovid, 1

Reg. Aberdeen Ang s bulls and heifers from 5 to 15 mos old of the very best of breeding, also Berkshine Swine, boans ready for service and pigs both sex singles, pairs or trios, will accept Liberty Bonds.

RUSSELL BROTHERS. Merrill, Mich.

Registered Guernseys foull Calf, nearly ready for light service, at a price, on will pay, don't wait long on this fellow.

J. M. WILLIAM, No. Adams, Mich. The Village Farm Guernseys—offer for sale: The T Pride of Sweet Orchard Farms No. 65057. Dropped Dec. 3 1919 ready to be ad your herd, his full sister now on A. R. test has milked over 2000 bs. 50 bs. fat in 50 days. Sire Langwater Wilchester (2908), dam Governor's Minnewaska 20 milking 45 bbs. daily (88158). Sire Langwater Advocate (2004), dam Imp. Gov's. Minnewaska (29234). First check of \$250 takes him. Rex Griffin, Herdsman. O.J. Winter, Owner, Sebewaing, Mich.

Guernsey Foundation
Twoyoung cows and built not related. All out of Adv.
Reg. dams. Other cows with A. R. records up to 600
ibs. fact. Inspection in vited.
PAUL LOVE, St. Austell Farms, Jackson. Mich.

GUERNSEYS

Bull calves for sale. Sired by Anten's May K ng that sold for \$7,000. Farmers prices and guaranteed to please. GILMORE BROTHERS, Camden, Mich

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

Guernsey Bulls of May Rose Breeding Their dams have records 490 to 450 lbs. fat also a few cows and heifers are offered. H. W. Wigman, Lansing, Mich.

GUERNSEY BULL CALVES whose 19,460.29 milk, 999.05 fat. Their mother's sire's dam made 15,169.16 milk. 77.850 fat.
T. V. HICKS. Battle Creek, Mich

PEDERAL Imported Guernsey Bulls. Priced to sell. Nine sold in 10 mes. A fine Masher Sequel 3 yrs. old, surs, sound and right \$175.00. Four grandsons of Ex-Champion A. A. cow.under 6 mes. old from cows on test. G. W. & H. G. R.A.Y. Albion, Mich.



Indiana School for Feeble-Minded Youth, Fort Wayne, Ind., G.W. Bliss. Supt., writes

"We engaged in breeding Holsteins to secure a more sure foundation for breeding, increase our milk production, make a better farm profit, secure better milk for food and have a better sale of surplus stock."

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The Holstein-Friesian Association of America 164 American Bidg., Brattleboro, Vermont

For Sale Six registered Guernsey bulls Maj f taken soon. Six registered Guernsey bulls Maj Bose breeding ready for service. Cheap John Ebels, R. 2, Holland, Mich.

Registered Guernsey yearling bulls Dolly Dimple's May King of Languater Backing. Priced to sell. Geo. W. Reeves, R. 7, Grand Rapids, Mich

The Traverse Herd We have what you want in BULL CALVES, the large,

tine growthy type, guaranteed right in every way. They are from high producing A. R. O. ancestors Dam's records up to 30 lbs. Write for pedigrees and quotations, stating about age desired.

TRAVERSE CITY STATE HOSPITAL Traverse City, Mich.

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

Here Is A Good One.

PIEPE 18 A GOOD UNE.

Born June 2nd, by Maplecrest De Kol Hengerveld, A size having three sisters each with records of ever 1200 pounds of butter in a year, two of them former world champions.

Calf's dam by an own brother to Highland Hartog De Kol with a yearly record of 1247.95. This combination of breeding has produced many 1000 to 1200 cows. If prepotency counts, where can you equal it?

Priced \$100.00 for quick sale.

Hillerest Farm. Mgr. F. B. Lay, Kalamazoo, Mich.

Holstein Friesian heifer and bull calves, purebred registered and high-grade. Price \$20 up. Splendid individuals and breeding. Write us your requirements. Browncroft Farms, McGraw, N. Y.

For Sale \$450.00

A show bull from A. R. O. Dam born December 15, 1918, Sired by our Show Bull.

MODEL KING SEGIS GLISTA

Whose grand dam, GLISTA ERNESTINE, has six times made better than thirty pounds of butter.

Buy now in order to have 1921-22 winter calves.

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NOTICE

The Winwood Herd

on Nov. 1st will move their Herd of Pure Blood Holsteins to their new home, 1½ miles south of Rochester, Mich. and for the next 30 days we will sell what bull calves we have cheap as we will be unable to get our buildings complete before winter. So get busy if you want a son of Flint Maplecrest Boy at your own price.

JOHN H. WINN, (Inc.)

Roscommon,

Michigan

"Top Notch" Holsteins

Buy a "milk" Ball of Quality from the Breeders of the world's only cow to produce 800 lbs. milk in 7 days, having an 800 lb. daughter.

Our herd is rich in the blood of Colantha 4ths Johanna, the only cow that ever held all world's records in every division from one day to one year at the same time. She produced 651.70 lbs. milk in 7 days. We are offering for sale a bull, whose dam exceeds this record by over 7% lbs. in 7 days.

His dam's records are:

Milk 1 Day 100.1 lbs.

Milk 7 Days 650.3 lbs.

His name is Butter 7 Days 26.31 lbs.

His name is 100 NUCOPIA WAYNE, No. 31239

His name is Butter 7 Days 25.31 ibs.

KING VALE CORNUCOPIA WAYNE, No. 31239

His dam and sire's two nearest dams average
Butter 7 Days 33.02 ibs.

Handsomely marked about one third white.

\$250.00 f. o. b. Howell.

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All herds under U. S. Supervision.

Howell, Mich.

Cluny Stock Farm

Federal Accredited Herd

Semi-Official Yearling Bull Cluny Konigen Pontiac Niobe SIRE a 30 lb. son of the \$35,000.00 sire
King Segis Pontiac Konigen

DAM a 16.9 lb. Jr. 2 yr. old made 12,425.5 lbs. milk. 550.38 lbs. butter in 305 days.

DAM'S DAM a 29.67 lb. cow now finishing year record with about 23,600 lbs. milk and 1,000 lbs. butter. She full sister to 1,000 lb. cow with 24,668 lbs. milk.

Seven nearest dams of this bull ayerage 29,482 lbs. butter. 597.3 lbs. milk.

Exceptional Type. Beautifully marked.

Guaranteed to please.

Price \$350.00. Pedigrees and photo on application.

R. Bruce McPherson, Howell, Mich.

2 Heifer calves sire a 27 lb. son of Maple Crest Kern-dyke Heng. Their dams have 19 tb. 2 77. old sister and a 27 lb. sire. Terms 875 down \$50 a year N. L. McLAULIN. Redford, Mich.

FOR SALE Registered Holstein-Friesian bull calf ready for service extra choice breeding and individuality. King of the Pontiacs breeding. Henry S. Rohlfs, R.I. Akron, Mich.

Young Bull X.L. Paul DeKol Maple Crest old 30 lbs. breeding both sides also bull calves 2 and 3 months old. Priced for quick sale.

RIVERVIEW FARM, R. 2, Vassar, Mich

HOLSTEIN BULLS 16 mos.eld 30 tbs. dams Price \$100. Dewey C. Pierson, Metamora, Mich.

575 buys a beautiful registered Holstein heifer calf six weeks old. Sired by a grandson of King Segis. No better breeding. B. B. Reavey. Akren, Mich.

Herefords For Sale Fairfax and Disturber blood, reduction on all sires, choice females for sale. Write me your needs. Earl C. McCarty, Bad Axe, Mick.

"Where the Champions Come From"

Offer special prices for 60 days to Michigan dairymen on bull calves from tested dams, sired by Sir Clothilde Concordia or Flint Hengerveld Lad. Send for extended pedigrees and prices.

Pontiac State Hospital Pontiac, Mich.

HEREFORDS

Cows with calves at side, open or bred beifers of popular breeding for sale. Also bulls not related.

Allen Bros. Paw Paw, Mich.

616 So. Westnadge Ave., Michigan Kalamazoo,

Hereford Bull advertised last week sold now offerine a very choice bull calf, 8 months old. A real herd-header E. J. TAYLOR, Fremont, Mich

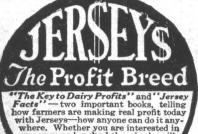
"Economy is the Basic Principle of Success"

From Michigan Farmer, page 195, Feb. 12 issue. The farmer never voiced a truer statement. The Jersey is the most economically producing dairy cow; she has proven it. There-fore she is the **Basic Principle** of Successful dairying.

"Economy means prudence, keen judgement, good management and the avoidance of waste." Therefore grading up your dairy herd with a pure bred Jersey sire is economy." "Expenditure is oft-times an Economy." Therefore buying a pure bred Jersey sire is economy.

economy.

"An investment should have your favorable consideration when it will aid in your chosen work." Buying a pure bred Jersey sire will be an aid in your dairy work. "You are practicing economy" when you invest in a pure bred Jersey bull.



The Key to Dairy Profits" and "Jersey Facts"—two important books, telling how farmers are making real profit today with Jerseys—how anyone can do it anywhere. Whether you are interested in one cow or a hundred, these books will show you how to make money.

Free—Write today
American Jersey Cattle
Club, 324-R. W.23 St.
New York

The Wildwood Farm

Jersey Cattle, Majesty strain, Herd on State accredited list, R. of M. testing constantly done. Bulls for sale. ALVIN BALDEN, Phone 143-5, Capac, Mich.

BUTTER BRED JERSEY BULLS
FOR SALE
Solver Creek. Spring STOCK FARM.
Allegan County, Michigan.

JERSEY BULLS Ready for Service, Raleigh-Oxford and—Majesty breeding. Meadowland Farm, Waterman & Waterman, Packard Rd., Ann Arbor, Mich.

Lillie Farmstead Jerseys Bull calves from R. of M. cows. Coopersville, Mich.

Jersey Bulls from R. of M. dams \$75 to S150 each. NOTTEN FARM, Grass Lake, Mich.

Jersey bulls for sale: From Marguerite's Premier a grandson of Pogis 99th and R, of M, dams, SMITH & PARKER, R. 4, Howell, Mich

Meridale Interested Owl No. Ill311 heads my herd bull calves from this great sire and out of R.of M. dams for sale. Leon E. Laws, R. 6, Allegan, Mich.

REMEMBER

Spalding Dispersion Sale **40 REGISTERED HOLSTEINS 40** PERRY, MICHIGAN WEDNESDAY, MARCH 2, 1921

Sale includes 25 young cows safe in calf to a 35-lb. son of Friend Hengerveld DeKol Butter Boy, or to a 28.5 lb. son of Sir Veeman Hengerveld, or just fresh with calves by side sired by these bulls.

Sale Managed By

MICHIGAN HOLSTEIN-FRIESIAN ASSOCIATION. Old State Block, Lansing, Mich.

Choice individuals; shipped to you c. o. d. express paid and guaranteed right or your money refunded. All stock registered in buyer's name.

J. CARL JEWETT,

Mason, Mich.

O. I. C. HOGS

all ages sired by Callaway Edd 1918 world's grand champ. boar and C. C. Schoolmaster 1919 world's grand champion also Wonder Big Type and Giant Buster. Write your wants, all stock shipped on approval.

CRANDELL'S PRIZE HOGS.

Cass City, Mich.

Bloomdale Shorthorns

See our cattle get our prices and breeding before buy-ing. Both bulls and females for sale. CARR BROS, & CO., Bad Axe, Mich.

SHORTHORNS BUY A BULL

that will put weight on your dairy calves—the diff-erence will soon pay for the bull. Now selling good Scotch and Scotch-topped yearlings, reasonably, priced. We guarantee every animal to be a breeder. Federal Test. One hour from Toledo, Ohio, N. Y. C. R. R.

BIDWELL STOCK FARM, Tecumseh, Michigan

Registered Shorthorns. Bulls and heifers. prices within reach of all. G. R. Deshettler, R. 4, Tecumseh, Mich.

Milking Shorthorns, bulls and heifers 5 mo. to 1 year old for sale at reduced prices to make room for younger stock. E. H. KURTZ. - Mason, Mich.

Stop! Look! Listen!

Have you a catalog of the Shorthorn Sale to be held at M. A. C. Feb. 25th at 1 P. M. We are listing four valuable females and two show bulls.

Richland Farms, C. H. Prescott & Sons, Tawas City, Mich.

The Maple's Shorthorns

Kirklevington Lad, by Imp. Hartford Welfare. In service, bulls for sale. J. V. WISE, Gobleville, Mich.

Branch County Farm

Polled Shorthorn Cattle

Young Bulls For Sale Several well bred herd bull prospects GEO. E. BURDICK, Mgr., Coldwater, Mich

Beef - Milk Shorthorns

Fairland Stock Farms now offer for sale bulls aged 2 to 14 mos Red, White or Roan. Three of extra merits sired by Walgrove Star 649025 and out of dams now milking 45-50 lbs. daily. Inspection invited. We can please you. JOHN J. FOSTER & SONS, Niles, Mich.

VALLEY VIEW FARMS

Choice young Shorthorn cows and heifers for sale at all times, bred or open, or a carload, also a few young bulls strong in Sultan Blood. Write S. H. PANGBORN & SON. Bad Axe, Mich.

M EADOW Hills Shorthorns. Herd headed by Sil-wer King, full brother of Lavender Sultan Pur due University's great sire. For sale females of al ages, a few young bulls. Geo. D. Doster, Doster, Mich.

Central Michigan Shorthorn Breeders Association offer for sale 75 head, Both milk and beef breeding, all ages. New list ready Jan. 15. M. E. MILLER, Sec.. Greenville, Mich.

Registered Shorthorn bulls ready for service for sale or trade. Apply THE JENNINGS FARMS, Balley, Mich.

Milking Shorthorns. Bull calves \$100 00 each.

Federal accredited Herds. Davidson and Hall, Beland and Beland, Tecumseh, Mich.

Reg. Red Polled cattle choice young buils from 6 to 18 FRANK KEBLER, B. 1. Grand Ledge, Mich. Peg. Red Polled bull calves, from 3 mos, to 1 year Rold, sired by Famous Charmer. 755 same blood as Charmer 1919 International GrandChampion, Our herd State and Federal tested. Westbrook Bros., Ionia, Mich

Registered Berkshires for sale. My herd boar, Oct. 2. Satisfaction guaranteed. Also S. C. Ancona eggs for hatching. John Young, Breckenridge, Lich.

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

DUROC JERSEY SWINE

sale 2 yr, old herd boars, yearling boars and boar, also bred sows and gilts. Write for pedigrees and es. Come and see them.
THOS. UNDERHILL & SON, Salem, Mich

DUROC JERSEYS

Bred glits, service boars and fall boar pigs at Bargain prices. Your correspondence or personal inspection is cordially invited.

RUSH BROS.. Oakwood Farm, Romeo, Mich.

Michigana Durocs Bred gilts and sows treaty. Also bred sow sale February Zlat. Satisfaction guaranteed. O. F. FOSTER, Mgr., Pavilion, Mich.

Duroc sows and gilts bred to Walts King 29499 at the State Fair in last 2 years than any other Duroc boar. Everyone will be a money maker for the buyer. Cut. and price list.

NEWTON BARMART.

St. Johns, Mich. St. Johns, Mich.

Duroc Jersey boars from 8 mo. to 1 yr. old. Select young sows mated to maintain size and correct type. Prices reasonable, shipped on approval and guaranteed right. W. E. BARTLEY, Alma, Mich.

Duroc bred sows and gilts for March and April far row, at prices you can afford to pay. Write W. C. TAYLOR, Milan, Mich

Reg. Duroc boar pigs 10 wks old \$20.00 reg and del. Don't wait, fine stock J. R. HICKS, St. Johns, ich



Spring pigs by Walt's Orion, First Sr. Yearling Detroit, Jackson,Gd. Rapids and Saginaw 1919 Phillips Bros, Riga, Mich.

Write Me at once I have just what you want heavy bone registered Duros Jersey boars ready for service, W. H. MAYES, L. B. 505, Durand, Mich.

DUROC JERSEYS Carey U. Ed monds, Hastings, Mich.

40 Head. Duroc Jersey Bred Sow Sale Park Hotel, Monroe, also at National Hotel, Dundee, be our guest sale day. F. J. Drodt, Monroe, Mich.

DUROC JERSEYS Boars and gilt by Mich. Path finder. E.D. HEYDENBERK. Wayland, Mich.

Special prices in Durocs. Heavy bone, best of breeding and type. Bred gilts, yr sow and fall pigs Both sex. A. W. HOWE, Mason, Mich.

Brookwater Duroc Jerseys

BOARS—Ready for Service Bred Sows and Gilts

Write us for Prices and Pedigrees Mail orders a Specialty. Satisfaction guaranteed MROOKWATER FARM, H. W. Mumford, Owner J. B. Andrews, Mgr.

DUROCS TWS and gilts bred to Jacks Oherry Orion King No. 169259 Son of the \$10,000 hoar owned by Longview Farm, Le Sumit, Mo. also young boars ready for service out of good sows. Apply THE JENNINGS FARM. Balley, Mich.

O I, C's. One last fall boar wgt. 425, two last fall gilts, bred lots of spring pigs and this fall pigs either sex. good growthy stock ½ mile west of Depot. Citz's. Phone 124 Otto B. Schulze. Nashville, Mich.

O. I. C's Fall pigs by C C. Big Callaway have size and quality and are priced right.
C. J. THOMPSON, Rockford, Mich.

O. J. C. Bred Gilts for Mar, and Apr farrow clover LEAF STOCK FARM, Monroe, Mich O. I. C. Gilts bred for April and May farrow. Shipped C. O. D. H. W. MANN, Dansville, Mich

O. I. C's choice gilts bred for April and May farrow. Fall pigs either sex. Book ing orders for spring pigs.
A.J. BARKER & SON, Belmont, Mich.

We Are Offering at special low prices health ic con 0.1. C. fall pigs sired by State Fair winners. WEBER BROS., Phone 48. Royal Oak, Mich. them.

WAR-TIME GAINS IN FARM PROD-UCTS PRICES WIPED OUT.

THE Bureau of Crop Estimates of the Department of Agriculture has issued a statement showing that the farmers of the United States have lost more by the recent slump in prices of farm products than the war-time price gains. Beef cattle on farms lost in average value per head from January 1, 1919, to January 1, 1921, all that they gained during the participation of the United States in the world war and more than half as much again. In the case of swine on farms, the average price per head, all ages, declined in the two years 1919 and 1920, eighty-eight per cent of the gain in 1917 and 1913, and two-thirds of the define was in 1920. From 1916 to 1934 the average farm value of the product of corn per acre increased from \$21.67 to \$38.54. The corn crop of 1920, taking the average value of the product of one acre, fell to \$20.93, and this drop not only wiped out the gain of the preceding three years but perceptibly exceeded it.

Commenting on this statement, Dr. T. C. Atkeson, Washington representative of the National Grange, says that unless an equilibrium is reached between the prices of farm products and industrial products, the country is going to see a more serious situation than it is now passing through. A high level of prices for industrial products and a low level for farm products will inevitably mean a food shortage. It is preferable to maintain a high range of prices covering all commodities. In a free country you cannot permanently maintain a higher range of prices for one class of commodities than for another, all things considered. The people are going where they think they can do the best.

After carefully considering the question of a fair ratio of wages for the mechanic and the farmer, deducting the lower cost of living in the country and the farm and garden supplies, Dr. Atkeson concedes that the man in the country should receive one-third less than the worker equally well qualified receives in the city; if a mechanic in town has \$6.00 a day the man on the farm should receive \$4.00 a day.

TRUTH-IN-FABRICS BILL TIED UP.

THE Truth-in-Fabrics bill, which has been the subject of much discussion all over the country, is dead so far as this congress is concerned. Probably no other measure before congress has been the subject of more widespread discussion or favorable comment, having been endorsed by nearly all the farmers' and stockmen's organizations and also by consumers' leagues and commercial associations. It has quite a following of good friends in congress, and several influential enemies, and unfortuantely a number of these unfriendly congressmen are members of the interstate and foreign commerce committee of the house, having the French Truth-in-Fabric bill in charge.

It is the suggestion of friends of the measure that the representatives of the wool growers, the woolen manufacturers, the textile and clothing industries meet in conference and agree upon a truth-in-fabric bill which will be sufficiently acceptable to these interests to insure its enactment in congress. There is a growing sentiment for a law which will put a stop to the selling of shoddy for fleece wools in woven textiles. It is thought that this sentiment should be drafted into a practical, effective bill which will enable its friends to answer satisfactorily the arguments of its opponents.

The supply of winter roughage for sheep has a marked influence upon the health of the animals and the econom-ic consumption of the food furnished

Veterinary. S

CONDUCTED BY DR. W. C. FAIR.

Advice through this column is given free to our subscrib-rs. 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 reguested the service becomes private gractice and \$1 must be enclosed.

imperfect Udder.—On December 17, 1920, my Guernsey cow came fresh. We ceased milking on December 1, but up ceased miking on December 1, but up to this date she gave one gallon of milk daily, but at this time one-quarter of bag was dry. Now her whole udder is rather inactive. She gives very little milk from three best quarters, most milk from the quarter that first closed. T. A. N., Comins, Mich.—Gently handwith udder a large here food if howels. rub udder, clarge her feed, if bowels are costive, the epsom salts, or feed her roots, or stage. Give her a halfounce of finid extract of phytolacea at a dose in either food or in drinking water three times a day.

Light Milker-Unthrifty Heifer. Guernsey cow is off in milk, giving about four quarts at a milking. She will not freshen until next July. She is irritable, switching tail, occasionally kicking when teats on left side are touched. Am feeding two quarts of ground oats, one part corn, with some ground cats, one part corn, with some oil meal, also four pounds of mangels twice a day. Yearling heifer is thin and unthrifty. H. O. S., Redford, Mich.—You should try to overcome the nervousness by the same person feeding and milking her, or perhaps changing her to another part of stable might have good effect. Feed some clover, alfalfa and plenty of roots. Give her half an ounce of powdered gentian and half an ounce of powdered gentian and one ounce of bicarbonate of soda in feed twice a day. Give helfer a tea-spoonful of Fowler's solution three times a day and increase her feed.

Luxation of Stifle.—Our eight-year-old mare went lame last summer, and old mare went lame last summer, and since then the stifle cap slips out of place and back again. What shall I apply? L. G., Selkirk, Mich.—Clip off hair, apply one part powdered can-tharides and five parts lard to stifle joint every two weeks. If not, apply the liquid blister you have on hand.

Diseased Tooth—Bursal Swelling.— Last spring my six-year-old mare had distemper, since then, she has had nasal discharge from one nostril, which shows most after she pulls a heavy load. I also have a twelve-year-old horse that has been troubled with soft puff in knee for the past seven years, but never lame until lately. The puff extends through the joint. J. E. M., Paris, Mich.—Examine the mouth and you will perhaps find the fourth molar tooth diseased; if so, have it extracted and nasal discharge will soon cease. Give her a teaspoonful of powdered sulphate of iron at a dose in feed three times a day. Paint bunch with tincture of iodine daily, or apply one part red iodide of mercury and parts lard every eight or ten days.

Stocking.-One hind leg of our Holstein cow stocks below hock, but she is not lame. J. C., Ontario, Canada.—Give her one dram of acetate of potash in feed or in drinking water two or three times a day, and bandage leg in cotton.

Indigestion—Rheumatism.—My two-year-old bull acts as if sore all over, has but little ambition and when in the barn is uneasy, changing position very often. D. J. I., Olivet, Mich.— Give him one pound of epsom salts in three pints of tepid water to clean him out, then give one-dram doses of sodi-um salicylate three times a day. Also change his diet. change his diet.

Small Abscess.—Failing to see many veterinary items in my paper and not knowing what ails my six-year-old cow I am writing to find out how to treat I am writing to find out how to treat her. She has small bunch on neck which is full of pus. This same cow is slightly lame, especially during cold weather. E. W. W., Pontiac, Mich.—Open sack, swab out cavity occasionally with tincture of iodine. Give her a teaspoonful of nitrate of potash in feed or in drinking water daily. or in drinking water daily.

Stringy Milk.—I have a Holstein cow due to freshen in May, that had one caked quarter, from which she gives stringy milk. What is the cause and remedy? H. R. S., Allegan, Mich.—Discontinue milking her from the diseased quarter and apply iodine one part, and fresh lard ten parts, to caked portion of udder. Kindly keep in mind that cleanliness of milking utensils and all other surroundings where the milk is kept has a whole lot to do with keeping it free from becoming stringy.

Shropshires Choice ewes, all ages, bred to W. B. McQUILLAN, R. 7, Howell, Much.

Want a Sheep? Let American Hampshire Sheep and you dandy be okelet with list of breeders. Write COMPONI Band and Sheep and Stallion sand mares at reasonable prices; inspection invited.

Shipped san few rams W. B. McQUILLAN, R. 7, Howell, Much.

Want a Sheep? Let American Hampshire Sheep and Sociation send you dandy be okelet with list of breeders. Write COMPONI Band Sheep and Stallion for sale good breeder milking and all other surroundings where the milk is kept has a whole lot to do with keeping it free from becoming stringy.

Administrator's Sale of Shorthorn Cattle registered and eligible to register, of the late Amasa Wilcox.

Wed., March 2, 1921

Catalog Furnished Upon Application

Fred S. Smith, Special Administrator Jerome, Mich.

HOGS



HAVE started thousands of breeders on the road to my greatherd in every community where I am not already represented by these fine early developers—roady for market at any second with white I am of the my land. When More I am of the More Money from Hogs.

5. 3. BENSAMIN. R. F. D. 10, Portland, Michigan

For Sale O. I. C. Swine, Strictly Big Type with good boars and gilts left of same type and blood lines, that won for us at Ohio and Michigan State Fairs. Priced very cheap. Write us before you buy.

REWMAN'S STOCK FARM.

B. 1.

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, Sales Mgr. Coral, Mich.

0.1.C's. Big Type Gilts, bred for Mar. and April farrow. Boars all ages. Write me for prices. G. P. ANDREWS, Mason, Mich.

L.S.P.C. a few choice bears gilts bred to Black Giant one of the best pigs out of fil. this fall. Also a grandson of The Clansman and Harrison Big Bob. H. U. SWARTZ, Schoolcraft, Mich

Big Bob Masiodon Spring gilts bred for March and April and some sows bred to Big Bob his sire was champion of the world, his dam's sire was Grand Champion of Jowa State Fair.

C. E. GARNANT, Eaton Rapids, Mich.

L. T. P. C.

70 head of Poland Chinas at private sale. Am offering spring boars from \$40 to \$50 and gilts the same price. Summer and fall pigs \$25 each. The first check will bring you the first choice. HART, FULCHER & CLINE. Address F. T. Hart, St. Louis, Mich.

Francisco Farm Poland Chinas

Offering a dozen choice gilts and a few tried sow bred to such boars as Michigan Mastodon and Michigan Clansman.

P. P. POPE, Mt. Pleasant, Mich. **BIG TYPE POLANDS**

Bred gilts for sale. Also a few choice fall pigs by The Clansman and his son The Clansboy. They are great. Immune and registered. Come or write. WESLEY HILE, R. 6, Ionia, Mich.

L ARGE Type Poland Chinas. A few choice fall boars for sale. Write or come and see them.
A. A. FELDKAMP, R. 2, Manchester, Mich.

Pig Type P. C. some very choice boars double immune, out 1100 th. sire and mammeth sows from Iowa's greatest herds. E.J. Mathewson, Burr Oak, Mich.

Big Type Poland Chinas bargain \$75 buys a bred gilt bred for \$40. Guarantee Satisfaction. DORUS HOVER, Akron, Mich. Bg Type Poland Chinas at lowest prices. Both sex, all ages, and bred

sows and gitts.
G. A. BAUMGARDNER, B. 2, Middleville, Mich

P.C. Bred sows. Fall pigs singly or in pairs. Also S.C. Minorca cockerels all big Type of the best of breeding. Satisfaction guar. R.W.Mills, Saline, Mich.

L. T. P. C. If you are looking for something good, in bred gilts at a right price. Write W. J. HAGELSHAW. Augusta, Mich.

POLAND China Bred Sows and Gilts at bargain prices, also spring boars and fall pigs, either sex. CLYDE FISHER, R. 3, St. Louis, Michigan Leonard's Big Type P. C. Sows bred to Orange Clansman, Fall boar pigs weigh 175 lbs. Real herd boar prespects. Call or write. E. R. Leonard, R. 3, St. Louis, Mioh.

This same cow Registered Hampshire JOHN W. SNYDER, R. 4, St. Johns, Mich.

SHEEP.

Wool-Multon Shropshire Rams. Good strong individuals, royally bred, priced right. A. H. FOSTER, Allegan, Mich.

HOMESTEAD FARMS

It will pay you in selecting Chicks for the coming season to consider the quality Pure Breed Practical Poultry

We will send you our new spring Catalog, which explains this breeding. Also the catalog tells how to brood your Chicks suc-cessfully; it describes our

High Class Egg Leghorns And All Standard Breeds

Both Chicks and Hatching Eggs from all breeds guar anteed, and delivered post paid. STATE FARMS ASSOCIATION, Kalamazoo, Michigan

Barred Plymouth Rock Cockerels boned, Rock type, well barred, bred to lay birds, lots of pep. \$4.00 and \$5.00. CHAS. H. WRIGHT, Jones, Cass Co., Mich.

BEST Breeds. Chickens, Ducks, Geese, Turkeys, Guin-eas, Hares, Dogs. Stock for sale. Write your wants. Catalog free. H. A. Souder, Box 24, Sellersville, Pa,

Baby Chicks Good big healthy chicks of show room quality at utility prices Catalogue free. Sycamore Hatchery, Sycamore, Ohio

BABY CHICKS

Hatched from free range stock. Quality and live delivery guaranteed. Write for catalogue. STILLWATER HATCHERY, Covington, Ohio. BARRED Plymouth Bock cockerels for sale, som Duice thrifty birds from prizewinning stock \$4 and \$5 George H. Campbell, R. 5, Box 70, Ypsilanti, Mich

Baby Chicks and Eggs for Hatching Barron's White Leghorns, Barred Rocks and R. I. Reds. Big sturdy chicks from free range stock with high egg records. Interesting catalogue free. BRUMMERS POULTRY FARM, Holland, Mich.

CHICKS English Strain White Leghorn.
Bred to lay Brown Leghorn and
Ancenas. Bargain prices for our quality stockkep
on free range. Order now for early deliveries.
Hillside Grove Hatchery Farm, R, l, Holland, Mich.

Cockerels and Hens; Leghorns, Minorcas, Reds Rocks, Orpingtons, Wyandottes, Hou Tyrone Poultry Farm, Fenton, Mich



Crystal Poultry Farms
HIGH QUALITY
Baby chix, eggs from
heavy laying strains.
Prize winners at 1929
New York and Ohio State
Fairs. 35 Leading breeds
Prices reasonable Safe arrival guaranteed. Oiroultry Farms
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1901 Franklin Ave., Cleveland, O.

BABY CHICKS R.I.Red, Barred Bocks, White Leghorns, Selected healthy chicks. Order early, have winter layers, First hatch Feb. 28th, Write for price list and circular.

DERR & ADAMS, Litchfield, Mich.

Baby Chicks

FREE delivery. Superlative quality from select high-producing stock. All popular varieties. Reasonable prices. Write for catalog at once, AERDALE POULTRY FARM, Springfield, Ohio.

Big 5lb. Barron White Leghorns

Real winter layers. 703 eggs from 50 pullets in Dec Free catalog describes them, gives feeding methods: a new way to cull hens and much valuable information Send for it. A. WAUCHEK, Gobleville, Mich.

BABY CHICKS Single CombWhite Leg-Strain) White and Barred Plymouth Rock, S. C. R. I. Red, Anconas, White Wyandottes and Brown Leghorns 25 for 6.55. 59 for \$1.60 and 190 for \$2.00. Ross Wadd Meadow Brook Chicken Hatchery, Mt. Morris, Mich.

Baby Chicks Anconas 17c, Rocks 20c, B.
All S. C. 5% Disc in lots of 1000 or more, Parcel Poc
Paid and safe delivery guaranteed. Oatalog free
KNOLLS HATCHERY, R. 3, Holland, Mich.

Barred Plymouth Rock cockerels large birds from a prizewinning laying strain 5.00 each. J. A. BARNUM, Union City, Mich.

Barred Plymonth Rock Cockerels, M. A. C. Strain \$5 Mrs, JESSE F. BALL, R. 9, Charlotte, Mich.

Barred P. R. Cockerels for sale M. A.C. heavy laying strain. Sired by 1st pen cockerels at Detroit Show 1920. Rosemary Farms, Williamston, Mich.

CHICKS, We ship thousands each season Send for prices and testimonials FREEPORT HATCHERY, Box 12, Freeport, Mich

DAY OLD CHICKS S.C. White Leg trap-nested stock where every hen must produce 60 eggs in four winter months. One hundred big thrifty chicks for \$25.00. MACALWHITE POULTRY YARDS, Alex. MacVittie, Proprietor, Caro, Mich.

BABY CHICKS, Eight improved varieties at lowest possible prices. A trial order will convince you of their superior quality. Catalogue free Ohls Poultry Yards and Hatchery, Marion, Ohio.

BABY CHICKS Hatching eggs, Barred Rocks, Norman strain, trap-nested, bred-to-lay expertly tested for many gend. Bred-to-lay, expertly tested for many gen-large illustrated catalogue 25c, stamps for Norman Poultry Plant, Chatsworth, Ill.

Barred Pocks Hatching eggs from Parks 200-egg strain. Rich in the blood of Parks best pedigreed pens. \$2 per 15, \$6 per 50, \$12 per 100. Prepaid by parcel post in nonbreakable containers. R. G. KIRBY, Route 1, East Lansing, Mich.

White Wyandottes Official records, five hens 1074 eggs. 15, \$3.00 and \$10.00; 100, \$15.00. Catalog free. G. W. SCHOTTMANN, Montrose, Ill

100 March hatched Barron strain, S.C. White Leghbra cockerels. Large, vigorous, pure white birds \$3 and \$5 each. R.E. McInerney, R.I., Frankenmuth, Mich.

Broad View Farm Big Type S. C. White bodied birds. Heavy layers of big white eggs. Exhibition type eggs IS \$2.50. 100 St. Post paid.
E. B. McKERCHER. Hilledale, Mich.

CHICKS CHICKS Shipped safely everywhere by mail. S. C. White Leghorns and S. C. Mottled Anconas, the great egg machines. Strong, sturdy chicks guaranteed to satisfy. Order now for spring delivery. 18th season, Free catalogue, W. Van Appledorn, B. 7. Holland, Mich. CHICKS Pure-bred S. C. White and laying strains. Parcela-pot brings them up to your door. Safe arrival guaranteed, \$15.25 per 100 post-paid Catalogue free. Royal Hatchery, R.2, Zeeland, Mich.

CHICKS! Standard bred White horns. Bred te lay, large white eggs. 50 chicks \$15,00,100, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00, \$15,00

CHICKS. Bred to lay S. C. W. Leghorn and Barred Rock quality chicks that please, guaranteed full count and to arrive to you "all ready made" in first class condition by parcel post paid. Leghorn: \$18 per 100. Becks \$20 per 100. Special prices on 500 to 100. Cir-cular. Sunnybrook Poultry Farm, Hillsdale, Mich.

CHICKS English Strain White Leghorns the heavy laying strain at only \$16 per 160; prepaid by mail safe arrival guaranteed send cash with order special rates on 500 or more.

JAMESTOWN HATCHERY,

Jamestown, Mich.

DAY-OLD CHICKS

\$16.00 per 100 and up. Hatching eggs, \$2.00 to \$15.00 per setting and \$9.00 to \$15.00 per 100, from 25 varieties of pure bred, farm ranged fowls: Chickens, Geese, Ducks, Turkeys and Gudness. Price list and circular free. Plenty of nice breeding stock. Book now for early spring delivery. WILMINGTON HATCHERY & POULTRY CO. Wilmington, Ohio.

DAY-OLD CHICKS

Strong, vigorous fellows, the kind that live and grow. Carefully selected, open range, purebred utility stock. Price reasonable. Circular free, SUNDEAM HATCHERY, 2433 S. Main St., Findly, Obic.

Fowler's Buff Rocks Cockerels, hens and pullets. Write for prices.
R. B. FOWLER, Hartford, Mich.

JOHN'S Big Beautiful Barred Rocks are hen hat ched quick growers, good layers, sold on approval \$4 to \$8. Circulars photos. John Northon, Clare, Mich.

LOOK [Best Graded] CHICKS
Our Hi-Grade profit paying Bred-to-Lay, M. A. Q.
tested and exhibition chicks, at reasonable prices.
Hatching eggs, 8 varieties, Gircular FREE,
Lawrence Poultry Farm, R.7. Grand Rapids, Mich.

Anconas Prize winners at the M. A. C. W. E. WEST & SON, R. 1, East Lansing, Mich.

BABY CHICKS 25 for \$5.50 50 for \$10 and 100 for \$18.90. Prepaid, sate delivery guaranteed. Simple Comb White Leghorns; White, Buff and Barred Plymouth Rocks; E. C. R. I. Reds and Anconas. Fenton Chicken Hatchery, Box 244, Fenton, Mich.

BABY CHICKS

English Stnain White Leghorns. The heavy laying strain at \$18.00 per 100 for April; \$16 for May. Prepaid by mail. Safe arrival guaranteed.

LEO. M. LEOW. *Dow, Mich.

Barred Rocks 15 eggs. \$1.75; 100 for \$8; by mail. Flock average last year 133 eggs. LEWIS B. AVERY, Clinton, dich.

Choice Baby Chicks English and A. American White Leghorns and Anconas. Catalog free. M. D. Wyngarden, ER. 4, Zeeland, Mich

COCKERELS: A few choice S. C. Mottled Ancona and W.F.B.Spanish cockerels. S and Sceach. Prize Winners. Lawrence Lahaie, Oheboygan, Mich.



For Sale 3 S. C. Buff Orpington Pens \$25 each, 1 pen 4 pullets headed by 2nd prize cock, 2 pens 4 hens headed by cockerel from prize stock, 109 N. Foster Ave, Lansing, Mich.

Jersey Black Giants. Again the sensation at Madiworld's greatest Poultry show. The giant of poultry-dom. If given free range will find the larger part of it's own living. For descriptive folder and price list on hatching eggs, write

MARCY FARMS, Matawan, N. J.

Lock! 100,000 for 1921. Box Old Chicks. Barred American and English; and Anconas. Write for free catalog. Fairview Hatchery, R. 2, Zeeland, Mich.

Oh s Improved Leghorns BABY CHICKS, bred from stock with high egg re-cords and show room quality None better for alling the egg basket, Catalogue free Ohls White Leghorn Farms, Marion, Ohio

100,000 CHIX 15c UP.

Best selected utility trapnested exhibition stock oper produced. Is varieties. Hatching eggs. Hens, ducks, Early bookings, avoids disappointment. Catalog FREE, Beokman Hatchery, 26 E. Lyon, Grand Rapids, Mich.

R.C.Rhode Island Reds

Choice Rose Comb cockerels—hen-hatched, farm raised, big thrifty, prize winning strains. \$5, \$7.50 and \$10.00, We raise only R. C. Reds.

BIDWELL STOCK FARM, Tecumseh, Michigan

Rhode Island Reds R. C. Large fancy cock erels at \$3-each. Address BURT SISSON, Imlay City, Mich.

Rhode Island Whites If you have ever said there is no money in raising outlry try the R. I. White, stock for sale, order ahead.
H. H. JUMP. R. 5, Jackson, Mich.

R. C. Br. Leghorn Eggs, \$1.50 for 15. Pekin duck, \$1.50 for 8. W. Chinese 2008e eggs, 40c each. Mrs. Claudia Betts, Hillsdale, Mich.

SELECTED WINTER LAYERS Sc. White Leg will he hatching laid by hens that averaged over two hundred eggs each last season. 15 Eggs \$3.00; 39 \$5.59; 10 \$15.90. BABY CHICKS each week beginning March lst. 15 \$7.59; 25 \$10.50; 50 \$25.95; 10 \$24.00 no catalogue.

Dunningville Poultry Farm. Dunningville. Mich.

S. C. WHITE LEGHORN CHICKS Send for Catalog SNOWFLAKE POULTRY Grand Rapids, Michigan

Thoroughbred Golden Wyandotte So.00. Write H. C. SCHLICHT, Thomas, Mich.

WHITTAKER'S R. I. REDS Michigan's Color and Egg Strain. Both Combs. Cockerels, Chicks and Eggs. Write for free catalog.
INTERLAKES FARM, Box 39, Lawrence, Mich.

¿Additional Poultry Ads.on Page 285



lower at \$3.85 per cwt.
Chicago.—White beans steady. Handpicked beans choice to fancy \$4.50@
4.75; red kidney beans \$9@9.25 per

New York.—Market is dull. Choice pea \$4.90@5; do medium at \$5.50@ 5.75; red kidney \$9.25 per cwt.

Rye.
Detroit.—Cash No. 2 rye \$1.59.

Seeds.

Detroit.—Prime red clover \$11.75;
alsike \$15.50; timothy \$3 per bushel.

Toledo.—Prime red clover, cash and
March \$10.95; alsike \$15.50; timothy
\$2.95 per bushel

The visitation of green bugs in Texas promises to cause more or less damas promises to cause more or less damage to the wheat and oat crops in part of that state and the pest has appeared as far north as Illinois. The unusually mild winter has caused many to look for severe visitations of insect pests of all kinds this year. Hessian fly reports are being received from the soft winter wheat states, but it is too early to make estimates as to the losses. High drying winds have been reported in parts of Kansas and drought is a far greater destructive agency in wheat, as a rule, than green bugs. Owing to the close adjustment of the wheat supply to demand for it the world over the prospect of a reduction in the new order. in the new crop from green bugs or other causes had more or less effect increased which, with a change in the weather unfavorable for insects, resulted in moderate decline. A leading European authority disagrees with some of the leading American statisticians and says that stocks at the end of the season promise to be small and that it is very probable that the world demand next season will be larger than this year. Foreign exchange continues to advance as purchases of commodities of all kinds in the United States have fallen off materially. Prac-States have fallen off materially. Practically no export demand for domestic wheat was reported during the week, as Argentine and Australia are offering freely at lower prices. Flour demand shows little improvement, although all reports indicate that stocks in second hands are unusually small for this season of the year.

CORN

Movement of corn which has been relatively light of late promises to increase again as surplus states have been selling rather freely due to the been selling rather freely due to the better condition of country roads, cold-er weather and higher prices. There are complaints of corn getting out of condition. In parts of Nebraska much grain was left on the ground without protection and continued mild weath-er has caused damage. It is said that the bulk of the selling necessary to meet March 1 money requirements has already taken place. The export de-mand for corn has improved considerably with around 2,500,000 bushels sold abroad during the week. Some of this business was forced as elevator room at Chicago is growing scarce. Prices also have been below Argentine corn. Germany has been the best buyer. A

Corn.
Detroit.—Cash No. 2 red \$1.94; May \$1.78; March \$1.7134.

Corn.
Detroit.—Cash No. 3 yellow 73c; No. 4 yellow 70c.
Chicago.—No. 2 mixed 70c; No. 3 yellow 67@67\data{c}{c}{c}{c}{c}{c}{c}{d}{c}{c}{c}{d}{c}{d}{d}{s}{d}{c}{c}{c}{c}{c}{d}{d}{s}{d}{s}{d}{c}{c}{c}{c}{d}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d}{s}{d

The decline in feed prices to a basis more nearly on a par with farm-grown feeds attracted new purchasing power and slight advances were made on mill growers and distributors are large, feeds during the past week. Quotahowever, and the effort to move these tions on oil meal remain unchanged.

EGGS AND POULTRY

Cooler weather had the effect of stimulating consumptive demand for stimulating consumptive demand for eggs and promised to check the flow of receipts resulting in a firmer market especially in the east. Cold storage holdings of case eggs on February 1 were only 44,000 compared with 408,000 a month ago, and 342,000 a year ago. Frozen egg holdings decreased about 2,544,000 cases during the month but are still nearly 50 per cent larger than on February 1, 1920. Storage holdings of frozen poultry on February 1 totalled 81,000,000 pounds, representing a gain of 2,000,000 pounds during January, but are still about 12 per cent January, but are still about 12 per cent smaller than on the same date a year ago. Latest quotations were as fol-

Detroit.—Eggs, fresh firsts 37@ 37½c. Live poultry, springs, 29@30c; leghorns 24@25c; heavy hens 29@30c; light hens 25@26c; roosters 20c; geese 27@28c; ducks 35c; turkeys 40@42c.

BUTTER

The upward turn in the butter markets continued throughout the past week. Fresh butter became comparatively scarce and the previous period of uncertainty left the dealers with small stocks. The eastern market for Danish butter also advanced, due to a delay of several days in landing the cargo of the steamer United States, as a result of a typhus scarce at New York City. The ship carries a cargo of 7,800 casks with some additional boxes. As the market has had a sharp advance, and there has been a change to the use of storage butter, and as the new cargo of Danish butter is expected to be available before the end of the present week, the prospect suggests a slight reaction within a few days. Prices upon 92 score fresh butter as quoted by the Bureau of Markets, February 19, were: Chicago 47½c; New York 48c; Phlladelphia 48½c; Boston 48c.

Both consuming markets and shipping points report weakness and lower prices for potatoes during the past week to many and the movement from the hands of growers is extremely slow as a result of the condition of the market. Demand improved slightly, especially from the south toward the segment to price the south of the condition of the market. Demand improved slightly, especially from the south toward the segment the south toward the segment to past the south toward the segment to the storage that the south toward the segment to the south toward the segment the segment to the south toward the segment the south toward the segment the south toward the segment the segment the south toward the segment the segment the south toward the segment the seg

and the movement from the hands of growers is extremely slow as a result of the condition of the market. Demand improved slightly, especially from the south toward the close of the week, and shipments declined, suggesting that improvement may soon be manifest. Northern shipping stations are quoted at 80@90c per 100 pounds. Prices for bulk northern round whites U. S. Grade No. 1 are quoted as follows: Chicago, \$1.05@1.20; Detroit \$1.70@1.90 per 150-lb sack.

FARM BUREAU MARKET REPORT.

Grain markets suffered a slight decline the past week but are materially above low point of the previous week. Firmer prices are expected if export buying continues. This applies to wheat, corn, rye and oats. Hay continues dull with little prospect of its recovering to higher price range. Large volume to be moved before new crop. General tendency of seed market is weak. Futures are low. Many farmers holding their seed. Carry-over will be large. Many local points not buying. Alsike and timothy steady with no changes during the past week. June clover is a little unsettled, the price range not exceeding \$11 high level or range not exceeding \$11 high level or \$10.50 low mark. Corn and beans are more active.

NEWS OF THE WEEK.

the Atlantic coast, and traffic is paralyzed in many sections by the heavy fall of snow. Monday, February 21.

A MERICAN Legion posts have been asked to watch for a revival of German propaganda in this country. In the allied conference which is convening in London to consider terms of payment of German reparations there appears to be an attitude toward complying with the wishes of America.-

COMING LIVE STOCK SALES.

Holsteins.—March 2, Michigan Holstein-Friesian Association, Perry, Michigan.

Shorthorn.—March 2, Fred S. Smith, administrator estate of Amasa Wilcox, Jerome, Michigan.

Live Stock Market Service

Markets for February 23.

ŧ.	Cattle.		
	Market strong.		64.70
	Best heavy steers\$	8.00@	8.50
	Mixed steers and heifers	7.25 @	
•	Best handy wt bu steers	6.50@	
	Handy light butchers	5.50@	
;	Light butchers	5.00@	
٠,	Best cows	5.50@	
	Butcher cows	4.00@	
,	Common cows	3.25@	
	Canners	2.75@	
	Choice bulls	5.25@	100000000000000000000000000000000000000
	Bologna bulls		5:00
	Stock bulls	4.50@	D. S. Williams
	Feeders	6.00@	
	Stockers	5.00@	
	Milkers and springers \$		90
	Veal Calves.		
	Good calves strong; other	s stead	v.
	Best\$1	3.000	4 00
		and all the	2.00

Others 6.00@10.00

Hogs 15@25c higher. Mixed hogs\$ 9,65@10.00

Toledo.—Prime red clover, cash and March \$10.95; alsike \$15.50; timothy \$2.95 per bushel.

Hay.

No. 1 timothy \$20@21; standard and light mixed \$19@20; No. 2 timothy \$18@19; No. 1 clover mixed and No. 1 clover \$17@18; rye straw \$12@13; wheat and oat straw \$11@12 per ton in carlots at Detroit.

WHEAT

BUFFALO

On today's market heavy hogs were bringing \$9.50@10; medium and mixed grades \$10.25@10.75; others at \$11; lambs \$10.50; calves \$16.50.

DETROIT

Cattle.

Market strong.

Best heavy steers\$ 8.00@ 8.50 pigs 130 lbs down medium, good and choice \$9.85@10.25; heavy packing sows 200 lbs up rough \$7.85@8.10; mixed steers and heifers 7.25@ 8.00 choice \$8.90@10.

um, good and choice \$5.50@9.40; cows common, medium, good and choice at \$4.25@7.75; bulls bologna and beef at \$4.75@6.75; canners and cutters cows and heifers \$2.25@4; do canner steers at \$3.75@5.50; veal calves light and handyweight medium, good and choice at \$9.50@12.75; feeder steers common, medium, good and choice at \$7.50@6. medium, good and choice at \$7.25@9; stocker steers common, medium, good and choice \$6@8.25; stocker cows and heifers common, medium, good and choice \$4@6.15 choice \$4@6.15.

Sheep and Lambs.

Little Journeys to the Markets

UNDER this heading we are going to discuss each week some market term or phrase in frequent use but the meaning of which may not be entirely clear to everyone. Our purpose is to enable our readers to obtain the greatest possible benefit from reading our market names. reading our market pages.

I.—Liquidation.

Liquidation is a term borrowed from the lawyers who apply it to the process of turning theassets of an individual who is in financial straits, into cash which is the most "liquid" form of capital, and applying it to the payment of what he owes. The market and applying it to the payment of what he owes. The market uses the term when farm products are closed out in a declining market in order to prevent further loss. The inference is that the sale would not be made if prices were not declining.

The opposite of the term, or selling at a profit, is known as

"Liquidation of longs" or those who have a surplus, may occur coincidentally with the "covering by shorts," or those who need additional supplies.

Liquidation has been in such common use in reports of markets for farm products during the past six months that farmers may be as tired of the word as they surely are of the process.

large stock now on hand, and the op-ening of the new shearing season. Goods markets show little change, but at least conditions have not become at least conditions have not become worse. General trade sentiment is cheerful but not bullish. Boston quotes the markets as follows: Ohio and Pennsylvania fleeces, delaine unwashed 39@49c; fine unwashed 29@30c; half-blood unwashed 32@34c; three-in-light delay anymathed 29@20c eighths-blood unwashed 29@30c.

HOG BREAK CURTAILS RECEIPTS.

H of producers responded promptly to the decline in hog prices reported a week ago by reducing shipments, while the bargain prices attracted buy-ers from the east to corn belt centers. Prices reacted to the high point of the year at Chicago in short order only to be followed by a marked reversal of form before the close of the week. All advices indicate that numbers of hogs remaining in the country are gradually dwindling and that the ability of

place at Chicago, although the eastern markets remain weak.

As the season of spring work upon farms in the corn belt will soon open, periods of shortage in market supply may be expected, especially after a month or six weeks, and a top of \$11.50 to \$12 may be obtained at Chicago in the course of this usual spring bulge.

PACKER CONTROL LEGISLATION.

been making strenuous efforts to get not use many of the southern-grown action on the packer control bill in the seeds to advantage. He cited governhouse. More than a hundred congress- ment reports showing that Italian and men were induced to sign a petition other southern-grown clovers and alasking the house committee on rules to falfa are not adapted to northern winreport favorably on a special rule giv- ters and is quite subject to disease, ing an opportunity to vote on the pack- and pointed out that last year twenty er control bill. These congressmen million pounds each of clover and alwere mostly from the south and west. falfa seed not adapted to northern cli-A number of eastern congressmen said mate was imported into the United they would vote for the packer control States. He said there was nothing to bill if it came before the house but they refused to sign the petition.

There is a strong sentiment in con-

amendment, Representative Haugen ing on his farm. points out that the senate bill creates to the creation of any new commission, seed since November 1, 1920. believing that existing agencies may packing industry. The committee the germination to ninety-two per cent. amendment gives to the Interstate Commerce Commission control over the stockyards and commission men and others furnishing services at the stockyards. That commission already has control over transportation of cattle, which does not end until they are unloaded at the yards, and, through its administration of the act relating to feeding and watering of cattle in ReadaboutPyrox, the combined poison and fun gicide, in the March 12th issue of this paper transit, has familiarity with the general subject matter.

Boston reports a firm wool market with a moderate demand. The outcome of the tariff law is still uncertain, although its veto by the President is considered highly probable. American buyers have been less active in foreign markets, and prices in Anstralia are slightly lower. Chicago reports recent sales of quarter-blood wools at 25c f. o. b. mills. There is but little upon which to base a belief in an advance in prices in view of the large stock now on hand, and the opening of the new control of the period. The committee amendment contains no such provision, on the ground that the consent decree entered into by the five great packers and the attorney-general before the supreme court of the District of Columbia already provides for such separation of packers and stockyard unless the commission under certain conditions extends the period. The committee amendment contains no such provision, on the ground that the consent decree entered into by the five great packers and the attorney-general before the supreme court of the District of Columbia already provides for such separation of packers and stockyard unless the commission under certain the committee amendment contains no such provision, on the ground that the consent decree entered into by the five great packers and the attorney-general business. Write me and cash in on information you get buse in your line. I will pay you for it and fere with your regular business. One man only territory. A real business proposition. Correct the suprement of the provision, on the ground that the consent decree entered into by the five great packers and the attorney-general business. senate bill includes within the definition of "live stock" only cattle, sheep and swine. In this connection the that by the agricultural appropriation act of July 24, 1919, horse meat was made subject to the meat inspection act and that there are already two plants under federal inspection.

At this date it is apparent that the only chance of any packer legislation being enacted during this session of congress is that the Haugen committee amendment may pass the house and senate without amendment. It is believed that no agreement can be reached on the senate bill.

KNOWLEDGE OF SEED PEDIGREE.

A BSOLUTE guarantee as to the origin and adaptability of its seed is producers to flood the market grows less and less with each passing week.

Fresh pork markets appear to have struck bottom, an advance of three to five cents per pound wholesale taking ward the advancement of Michigan agulace at Chicago although the centerpy ward the advancement of Michigan agriculture. The iron-clad statement, says Mr. Nicholson, head of the department, backed by expert investigation of all seed handled by the farm bureau, points the way for the elimination of the greatest of the farmer's seed gambles-that of origin and adaptability.

Michigan's state seed law falls short of giving the farmer full protection in that it fails to insist upon the origin of LL the agricultural organizations the seed, according to Mr. Nicholson, A LL the agricultural organization the secu, according to represented in Washington have who declared that northern states canprevent much of it from getting into northern states.

By excluding from its warehouses gress against any extension of the pol- all suspected seed, and insisting on the icy of government by commissions. For origin and history of all the seed it this reason it is believed that the handles, the farm bureau seed departhouse bill, known as the Haugen bill, ment claims that it has gone the seed is preferable to the senate bill, and industry one better, in that it affords also that it is less objectionable to the the farmer for the first time, complete and accurate information on his seed In a comparison of the senate bill and enables him to investigate sucand the house agriculture committee's cessfully the stock he intends introduc-

Notwithstanding the fact that all a new commission, to be known as the hard shelled seed is scarified at the federal live stock commission, compos- farm bureau warehouses and cleaned ed of three commissioners appointed to a rigid standard, the farm bureau by the President at a salary of \$10,000 seed department reports that it has per year. The committee is opposed handled more than a million pounds of

The department has found that the be utilized instead. Accordingly, the present crop of Grimm alfalfa seed has committee amendment gives to the an unusually tough seed coat, because secretary of agriculture control over of the long growing season last year.

the packers on the theory that his dutGermination tests on northwestern
Carried in carioad lots at leading distribution.

Write today for catalog which fully explains The Fowler—IT'S FREE. ies are closely connected with the in- grown seed showed a germination of HARRIMAN MFG., Box 504, Harriman, Tenn sixty-two per cent. Scarification raised



The senate bill prohibits the packers, after two years from the date of passage of the act, from owning or passage or passage of the act, from owning owning

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committee calls attention to the fact Geo. Thomas, 8-E. Gorham St., Madison, Wis.

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Covers 8 Acres a Day

It does as good work as you can do with a hoe—It cuts every weed—None can dodge it—Keeps the surface in condition to readily absorb rain and produces a mulch of fine soil which prevents the occase of vents the escape of moisture. One trip to the row—narrow or wide.



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It's the cultivator for corn, cotton, tobacco, peanuts, beets and truck crops. It is unexcelled also as a bean harvester.

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See the way this ring has worn and weak-ened the strap. You never saw an old fash-ioned ring and buckle harness that didn't look like this after a few years use. Look how the buckle cut the strap. Walsh Har-ness will outlast two sets of ordinary harness for the reason that it has no buckles to cut the straps, no rings to wear them.



Pres.

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I have used the Walsh Harness a year for all
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the best harness on the market regardless of
price.

J. M. ANDERSON

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well pleased with it. When I buy another
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CHRIS. MUXFELDT

Cleveland, Wis.

I honestly believe that the Walsh Harness
will ontlast two sets of the other make.

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I am well pleased with it. I would advise
anyone to buy a Walsh for I think the harness
is perfect in every way. is perfect in every way.
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