

MICHIGAN FARMER

AND
LIVE STOCK
PUBLISHED WEEKLY.

JOURNAL
ESTABLISHED 1843.

VOL. CLV. No. 18
Whole Number 4121

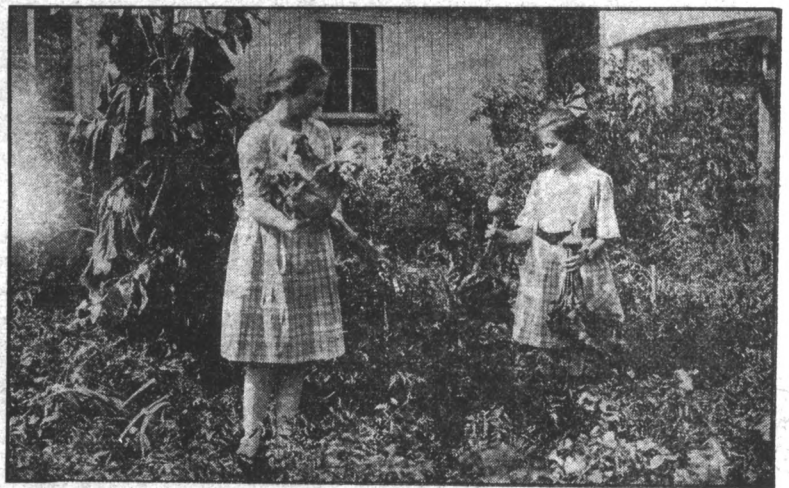
DETROIT, MICH., SATURDAY, OCTOBER 30, 1920

ONE YEAR \$1.00
FIVE YEARS \$3.00

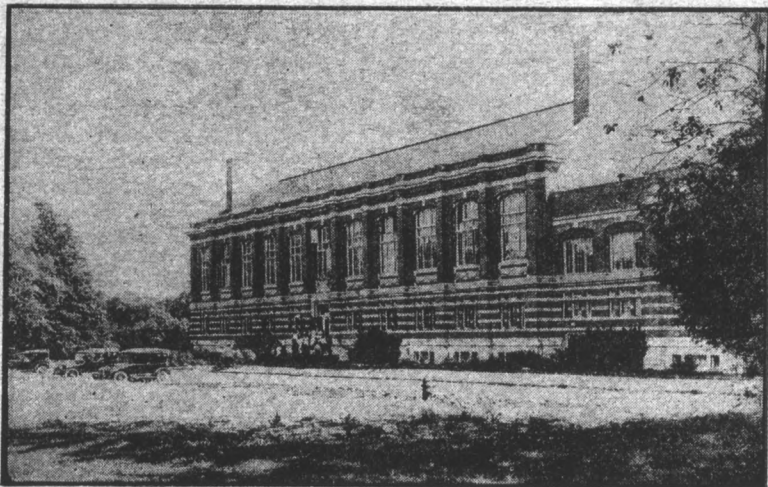
A Variety of Michigan's Agricultural Educational Institutions



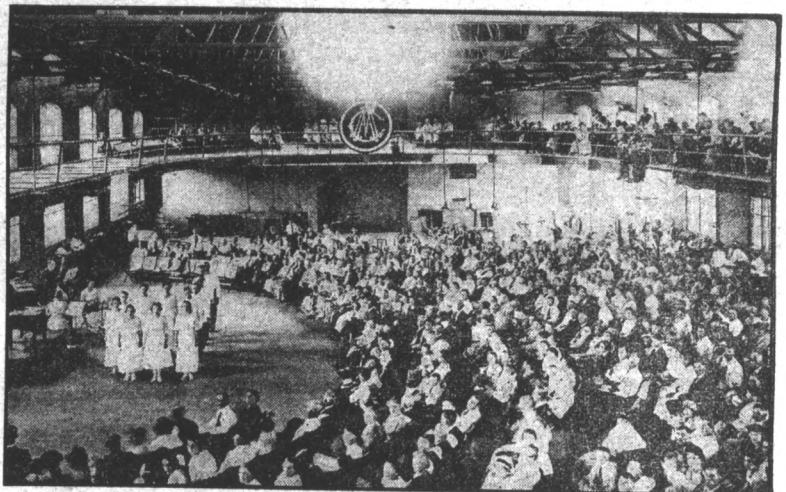
In the Battle Creek School Garden Contest this Twelve-year-old Boy Was Awarded High Honors.



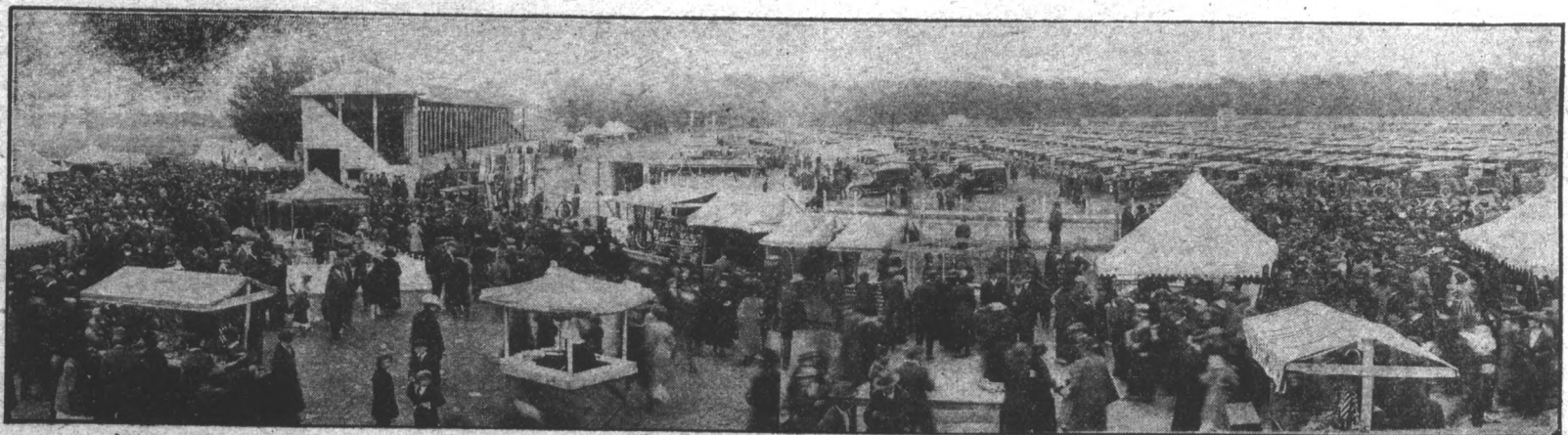
These Michigan Girls Produced Enough on a 16x24-foot Garden to Provide the Family with Green Stuff for Several Months.



The Splendid New Gymnasium at the M. A. C. Has Attracted Much Favorable Comment.



Mrs. Dora H. Stockman was in Charge of this Central Michigan Grange Rally Held at the M. A. C.



Local Fairs were Unusually Well Attended this Year. The Panoramic View was Taken at the Eaton County Fair at Charlotte.

The Michigan Farmer

Published Weekly Established 1843 Copyright 1920

The Lawrence Publishing Co.

Editors and Proprietors

432 LaFayette Boulevard Detroit, Michigan
TELEPHONE CHERRY 8384

NEW YORK OFFICE-95 Madison Ave.
CHICAGO OFFICE-111 W. Washington St.
CLEVELAND OFFICE-1011-1013 Oregon Ave., N.E.
PHILADELPHIA OFFICE-261-263 South Third St.

M. J. LAWRENCE President
F. H. NANCE Vice-President
PAUL LAWRENCE Treasurer
J. F. CUNNINGHAM Secretary

I. R. WATERBURY Associate Editors
BURT WERMUTH
ALTA LAWSON LITTELL
W. MILTON KELLY

I. R. WATERBURY Business Manager

TERMS OF SUBSCRIPTION
One Year, 52 issues \$1.00
Two Years, 104 issues \$1.50
Three Years, 156 issues \$2.00
Five Years, 260 issues \$3.00
All sent postpaid
Canadian subscription 50c a year extra for postage

RATES OF ADVERTISING
50 cents per line agate type measurement, or \$7.00 per inch (14 agate lines per inch) per insertion. No advertisement inserted for less than \$1.50 each insertion. No objectionable advertisements inserted at any time.

Member Standard Farm Papers Association and Audit Bureau of Circulation.

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

VOLUME CLV. NUMBER EIGHTEEN

DETROIT, OCTOBER 30, 1920

CURRENT COMMENT

Team Work in Selling

IN a large number of Michigan communities the more progressive farmers have organized cooperative elevators to serve their respective communities in the matter of marketing their products, and in the purchase of coal and other bulk farm supplies. These cooperative elevators are purely service organizations, not corporations organized primarily for the profit of the stockholder members. Their earnings, after the payment of a nominal rate of interest to the members on their actual investment, are distributed to their patrons on the basis of their patronage.

Naturally the business organizations with which they must, in many cases, compete are anxious to maintain their business and discredit the new type of sales organization and will willingly sacrifice present profits to that end. This is a phase of the situation which should not be overlooked by any farmer who is offered the lure of a seemingly more favorable deal by the privately owned, or even the so-called cooperative elevator which is not organized on the above mentioned service basis.

The cooperative elevator, organized on a service basis and hooked up with the elevator exchange under the auspices of the Michigan State Farm Bureau, is in the best possible position to market its members' products to the best advantage. All that is needed to make this economic method of moving our farm products marketward, a complete and permanent success is team work on the part of the farmer members of the local service organizations. This team work should be applied not only to making the local organization a success, but should be exerted to effect a tie-up of the local organization with the state elevator exchange, to the end that the farmers' own selling organization may be made as complete and efficient as possible at the earliest possible date.

Private operators have in the past been prone to express the opinion that farmers' cooperative selling organizations would not be a success, for the reason that the farmer members would not stick by them under adverse market conditions. The fallacy of their reasoning has been proven in the history of many cooperative selling enterprises in other states and in Michigan, notably the Michigan Potato Exchange, the fruit exchanges of western Michigan, and the live stock shipping organizations scattered all through the state. The farmer members have

stuck together to make several hundred cooperative selling organizations built on the service plan an unquestioned success in our state, and we believe they will provide the team work to make this the universal plan of marketing farm products.

Conducted on a sound merchandising basis, this is unquestionably the most economic plan of assembling our farm products and moving them marketward. This fact has been demonstrated in many communities where good market facilities have been provided and a substantial volume of business maintained at points where private enterprise has failed to provide adequate market service, as well as by the success of cooperative selling organizations at points where competition with private enterprise is keen.

Let us have the team work needed to develop this plan of marketing to the optimum of business economy. The farmers of Michigan have the initiative ability and leadership to accomplish this desirable result. Good team work will make its accomplishment certain.

Farm Use of Dairy Products

AT the annual meeting of the Michigan Milk Producers' Association held at M. A. C. last week, a report of which will be found on page 15 of this issue, Judge Munn, president of the National Dairy Council, gave some facts and figures relating to the use of milk as a food, which all the farmers as well as the dairymen of the state would do well to consider. In discussing "The Cause and Remedy of the Present Depression in the Dairy Industry," President Munn strongly asserted that this depression is not due to over-production, but rather to under-consumption of dairy products. A point of greater interest to dairymen and farmers was his equally strong declaration that this

under-consumption is much greater on the farms of the country than in the cities and towns. In one corn belt county where a survey was made it was found that of four hundred children on farms, fifteen to twenty-seven per cent were under normal in physical or mental development because of a lack of milk in their diet. In another survey it was shown that sixty-nine per cent of the children in the towns in the territory surveyed drank milk regularly as compared with eleven per cent of the children on the farms. The speaker then presented figures to show that even a small increase in the use of milk and milk products on the farms of the country would not only absorb the surplus but much more, and presented a powerful argument for the increased farm consumption of this best and cheapest of all foods, which modern scientific experiments have shown to be absolutely essential to normal human growth and mental development.

Judge Munn's conclusions were sound. More milk and milk products should be used in every farm family. First, because it will supply a demonstrated physical need of every member of the family which no substitute food can do. And incidentally because this is a case in which the old proverb about the cake does not apply, since an increased farm consumption of dairy products which will relieve the market of the present surplus will put the business on a more profitable basis.

FARM BUREAU STATEMENT ON LABOR PROPOSAL.

AMONG the constitutional amendments to be submitted to the voters of the state next month is one dealing with the fixing of working hours and conditions for the people of the state by the legislature. Concerning it, the following statement has

been issued by the Michigan State Farm Bureau:

"On the ballot which will be submitted to the electorate of the state at the November general election is a proposal for an amendment to the constitution of the state, which, if carried, would give the state legislature authority to limit a man's ambition and inclination to work for his advancement, even though he may in no way be transgressing on the civic rights of his fellows.

This amendment provides for empowering the legislature "to enact laws relative to the hours and conditions under which men, women and children may be employed." The amendment is the insertion of the word "men" in this clause which is standing in Section 29, of Article 5, of the governing code of the state.

On its face, it appears serenely innocent enough, but it should be carefully considered by every farmer in the state, before he votes on it.

There are radical elements in Michigan who would like to see in effect an arbitrary law prohibiting men from working longer than an eight-hour day. There are others who declare six hours should be the limit.

There is none of the ninety thousand farm bureau members in Michigan who has come to attention who could do his daily work in eight hours or who could afford to hire men to work his farm if at the end of six or eight hours they were to wash up and quit. Farming, which supplies the bread and butter for every table, can't be done in eight-hour days. The old expression of "making hay while the sun shines," is more truth than fiction and from sun-up to sun-down, the farmer's day, is not within the limits of eight hours, let alone six.

But there are other sides to this story. Arbitrary limitation of the time a man may devote in work to provide a living for his family or for his personal advancement is bound to operate to sap ambition for better things in life. It is not in accord with that fundamental principle of our American life that permits citizens to legislate for themselves, providing they do not overstep the bounds of decency or interfere with the inalienable rights of others. The independence of character that brands an American as such the world over has been too vital a factor in the wonderful development of this nation into the greatest in the world for it to be sacrificed carelessly to satiate the selfish and rapacious whim of any radical group or element in our country.

It may be suggested that so long as such legislative power reposes with the state legislature that the general public has nothing to fear in consequence of passage of an amendment of this character in November. But it should be remembered that history is replete with instances of where and how radical minorities have obtained control of reins of government to the confusion of an inaggressive majority; also that we in Michigan have no guarantee that the capricious winds of political fancy may not waft into the legislature some time or other sufficient representatives of a loose-thinking minority to jeopardize the welfare of the farmer and the general public.

News of the Week

Wednesday, October 20.

THE outlook for settling the coal strike in England improves.—Excluding twelve state institutions, the estimates of expenditures for carrying on the government of Michigan for the fiscal year ending June, 1922, total \$12,860,243.48.—The United States releases control of piers in Hoboken formerly owned by German companies.—The state of Illinois again denies a forty per cent increase in freight rates.

(Continued on page 546).

Elevator Exchange Opens

THE elevator exchange department of the Michigan State Farm Bureau, in the process of development since last April, began business October 20 with twenty-three elevators using it as selling agent for grain and beans.

The membership of these elevators has paid a \$200 membership fee, given its negotiable promissory note for \$500 and signed a contract with the exchange that appoints the "Elevator

two hundred elevators handling the major part of the grain business of the state. When the national "Committee of Seventeen" has formed a plan for the cooperative organization of the grain business of the country, Michigan farmers will be ready to take their place and do their part towards the success of that plan.

The business of the exchange is directed by a board of control which is elected by the membership of the elevators, each association getting one vote. The exchange, like all other departments of the State Farm Bureau, is under supervision of the executive committee of the farm bureau. Any elevator in the exchange may withdraw at any time between the first day of June and the first day of the following July. Each local elevator or association is responsible for its pro-rata share of the contracts, debts, and engagements of the exchange.

What the business of this exchange may develop into in this, and succeeding years, can only be surmised. What they have done in the past has been collected from most of the associations and is represented in the following figures:

The business of eighteen of these elevators last year amounted to four hundred and fifty-six carloads of wheat, one hundred and seventy carloads of oats, two hundred and twenty-five carloads of rye, one hundred and sixteen carloads of beans, and one hundred and seventy carloads of hay.

The total value of the property of these eighteen elevators is \$484,000, making an average of \$26,666 apiece.

The business in dollars and cents has been obtained for only twelve of them. These twelve did \$5,367,000

(Continued on page 547).



Thomas B. Buell, Manager.

Exchange its agent for marketing all grain and beans." All but eight associations have signed up to sell hay through the exchange.

These twenty-three elevators are the nucleus for what the State Farm Bureau and the Extension Department of the Michigan Agricultural College believe will become an exchange organization of between one hundred and

Better Farm Flocks

Weed Out the Drones and Select Heavy Layers NOW, for Breeding Stock

Next Year—By E. C. Foreman



No. 1—Record 268 Eggs.

VARIOUS conceptions of the desired conformation that is so frequently labeled "egg type" is found among present-day poultrymen. In most cases this type is more or less hypothetical, due to limited observations or prejudice. Some are convinced that a heavy layer must possess a long back, high tail, large comb development or a wedge-shaped body. A hen may possess all these characteristics and be a poor producer.

After handling many thousands of

est producer. The intermediate type occupies the same position as to production.

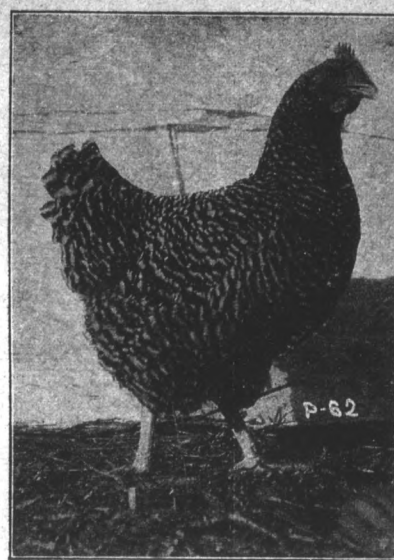
Among the general characteristics the head reveals, is the sensitiveness of the internal mechanism, disposition, refinement or coarseness, femininity or masculinity and constitutional vigor.

A heavy laying hen always possesses a very refined head, indicating a bright, active, and intelligent disposition. The skull should be moderately narrow, with an absence of coarseness directly above the eyes. A wide skull with over-hanging eyebrows indicate a propensity for broodiness. The face should be lean and delicate, avoiding the fat wrinkles common to the beef types. A very delicate skin indicates sensitiveness that responds readily to care. Preference should be given to the hen with an oval eye, showing considerable eye membrane directly in

relation with the quality of the egg sack and the correlation with body conformation.

Capacity of Egg Sack.

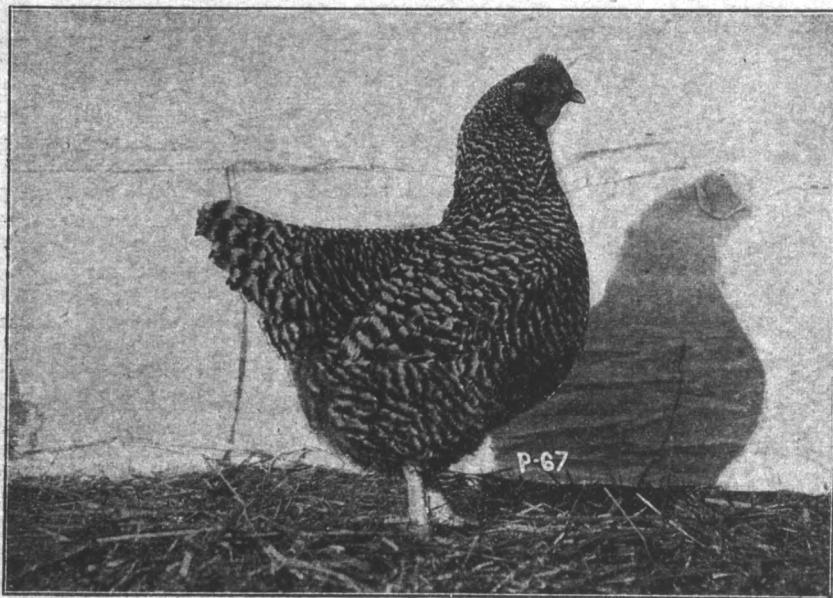
Reference is here made to the capacity, measured perpendicularly from the tip of the keel to the pelvic bones which are located on each side of the vent. Most of the culling work conducted throughout the country is based largely on the capacity measurements, spoken in terms of so much finger room between these two points. This test is used either separately or in conjunction with the pigmentation test. While both these tests have many advantages and are sufficient for the novice or for practical application on the general farm where flock culling only receives attention once a year, on the other hand the specialist does not enthuse much over the idea of feeding high-priced grain for six



No. 2—Record 238 Eggs.

good hens would be discarded. It is true an active condition of the ovaries is indicated by the spread in this region. By it we are able to get a reliable indication of present production but how are we to get a clue as to the profitability of production.

By introducing a second factor, namely, quality of the egg sack, considerable information can be gained.



No. 3—This Fair Dame Produced Only 141 Eggs.

hens of all breeds, the writer concludes that no single egg type exists, but there is a conformation peculiar to all heavy layers. This conformation, although possessing definite characteristics does not necessarily make an individual type, to which all highly productive hens must conform.

Figures one to three show more clearly than can be described by pen the tendency production has in altering type. These females possess equal breeding, all are the progeny of a single sire, and the record was made in each case under equal environmental conditions, at the Missouri Egg-laying contest. The contrast in type is well defined between the highest and low-

front of the eyeball. The jaw should not be thick nor deep.

The head of every hen is constructed a little differently and herein lies a field for further study in the egg type controversy. Not only is this an individual characteristic, but also is found to be a breed characteristic. In the Leghorn family alone, the Brown variety are different from the White in point of head structure. Although the variation is not so pronounced as it is between breeds, nevertheless a difference is easily noted. The Brown Leghorn possesses a shorter and rounder head, full face and heavier skull.

The writer places particular stress on the head because of its direct asso-

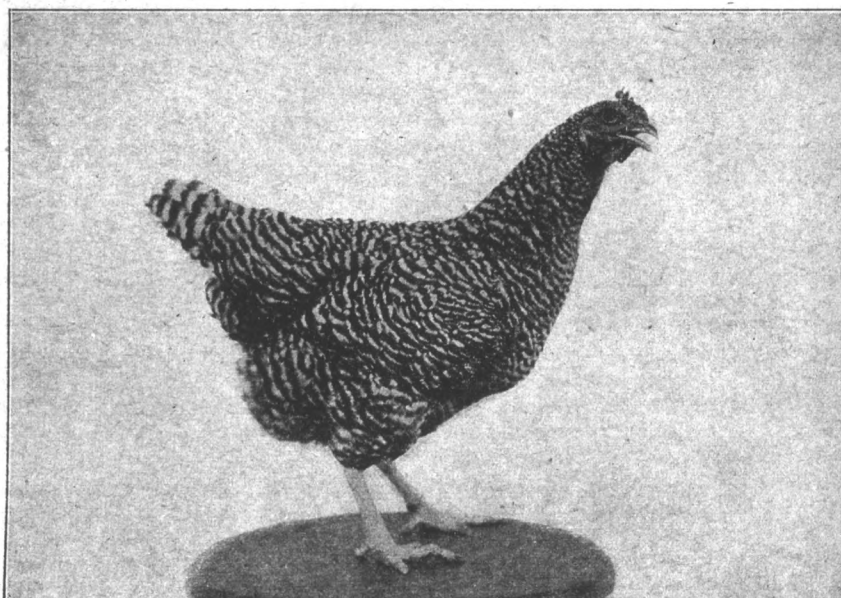
months to find out whether the hen has the ability to produce or the vitality to withstand the strain of heavy production.

The weakness of straight capacity measurements lies in the fact that all laying hens, whether laying at a profit or not, develop sufficient capacity to pass inspection. In fact, many mediocre hens show more capacity than the heaviest producers, although this is not always the case. Moreover, a heavy-laying hen due to some local environmental condition, may be temporarily off production. This would immediately be reflected by a decrease in capacity measurements and unless a little judgment were exercised many

The refinement of the head is always very closely associated with quality of egg sack. These two factors combined are a safe guidance in selecting and grading the laying hens.

In determining the capacity or quality of the egg sack a correct and uniform method of handling must be observed. Unless the hen is properly balanced, incorrect conclusions may be drawn, due to the cramped position in which the hen is held. Clasp her firmly in the right hand, balancing and supporting her weight by the fingers, with the thumb grasping the left thigh, at the same time the fleshy part

(Continued on page 533).



No. 4—Refined, Delicate Feminine Head of a 263-Egg Hen.



No. 5 at left shows the beefy type of head. Record 48 eggs



Crow Head—No Eggs.

No. 6 at right shows masculine head of hen that has laid no eggs.



A Year of Accomplishments

SOMETIMES in a single year more momentous developments occur than often happens in a lifetime. The period between October, 1919, and October, 1920, has been just such a year to the farmers of Michigan, and also to the farmers of the entire United States. Michigan farmers have performed a prominent part in molding the new organization thought of the country, and many states have followed the example of her State Farm Bureau and linked commercial cooperation with education.

This is the first anniversary of the actual beginning of the organization of the Michigan State Farm Bureau. One year ago the farmers of Oakland county "took a chance" and began pledging their \$30 apiece to finance a state organization for three years. The small organization that existed at that time was several thousands of dollars in debt but had a great vision of the possibilities of farm organization in Michigan. They had no members but today there are ninety thousand farmers who have given their moral and financial support to the State Farm Bureau and are looking to it for leadership.

The record of the year's work covers a very broad field of activities which may be roughly covered under the heads of business, education, organization. The story of organization may be told in a few words but it constituted a job which took ninety per cent of the resources and almost an equal amount of the time of the State Farm Bureau. This great unwieldy job of getting ninety thousand farmers to start in on this proposition is nearly completed. It will be followed, however, by a larger task, that of organizing the various commodity interests of Michigan so that the farmer members can market their products with the assurance that they will get a reasonable profit over their costs of production. What this cost of production is, the United States Department of Agriculture is discovering by careful investigations and is publishing in weekly statements to the country.

Despite the fact that so much of the energy of the State Farm Bureau has gone towards organization this year there is a long list of worthy deeds to place to its credit. These acts are listed below under the general heads of business, education and organization. These divisions should not be considered arbitrary, for all the business has been educational and all the education has helped business and organization is inseparable to either. A perusal of the first year's work of the Michigan State Farm Bureau divided into these three classes will give the reader a fair conception of what has been done through the state organization.

Business.

Assembled 3,524,694 pounds of wool for market, some from every county in the state.

Graded 1,121,884 pounds ready for inspection by large buyers and proceeding at the grading at the rate of 20,000 pounds a day.

Handled orders for 16,785 tons of coal through its marketing department.

Purchased three cars of arsenic for northern counties plagued by grasshoppers.

Committed Michigan congressional delegation to passage of collective bargaining, Truth-in-Fabric bill, and to opposition to the Ralston-Nolan tax bill and others.

Acted as sales agent, through its seed department of the Michigan Crop Improvement Association and sold certified seed in sixteen states.

Every Progressive Farmer is Anxious to Review the Work of the State Farm Bureau During its First Year, When 90% of the Energy was Used in Organization Work

Arranged for receipts of cloverseed consignments to be cleaned and sold for the members.

Arranged for the purchase of 150,000 pounds of alfalfa in the northwest direct from growers, this seed to come from fields inspected by a representative of the seed department.

Did a total business in certified and uncertified seeds of three carloads of oats, four carloads of timothy, two and one-half carloads of seed wheat, two carloads of Rosen rye, one hundred and seventy-five bushels of Grimm alfalfa for summer seeding, 10,000 pounds of vetch, 7,700 pounds of Medium red clover, 3,000 pounds of Mammoth clover, 1,305 pounds of alsike and 1,400 pounds of sweet clover and quantities of rape seed and soy beans.

Accepted notices from county seed departments that at least four carloads of cloverseed will be consigned to this department for cleaning and selling, during the winter months.

Developed a seed handling agency which has already accepted orders for many thousands of pounds of all kinds for spring delivery.

Saved thousands of dollars for fruit growers through its traffic department by securing one hundred and twenty-five additional refrigerator cars per day to move the season's peach and grape crops.

Continued these efforts for the good of the growers of apples and pears. Placed many cars for local cooperative associations for their outgoing shipments.

Kept two hundred cars of acid phosphate ordered through the marketing department moving from a Georgia factory to Michigan towns for members on schedule.

Secured transportation of cans to the canneries so the cannery crop growers would have buyers for their products.

Traced many cars and part carload shipments for County Farm Bureaus and cooperative associations.

Represented the farmers of this state at several important tariff hearings, including one in particular on perishable freight tariffs.

Brought pressure to bear on the Fruit Growers' Express Company, which resulted in getting more cars to move perishable traffic such as cabbages from the Saginaw Valley, celery, fruits, melons, apples, etc.

Saved hundreds of dollars for farm bureau members by auditing freight bills and finding mistakes in the railroad charges.

Worked on a storage-in-transit rate with railroads which provides that growers may ship under one rate to any point in the United States with the privilege of storage in warehouses in Chicago or other central point, a plan which would result in disposing of much more of the crop.

Installed modern cleaning machinery with an expert cleaner in charge.

Bought a large warehouse and office building in Lansing and rented three other wool warehouses.

Education.

Conducted an educational campaign

in wool handling and marketing by the sending of literature and by exhibitions at the state and county fairs.

Acted as an exchange for buying and selling of hay, produce and fruit, telling one part of the state where it could buy provisions in another part.

Developed a publicity system which has kept both the membership and friends in the city informed on organization activities and market conditions.

Created an information bureau which serves both members and others in answering inquiries relative to the State Farm Bureau and to Michigan agriculture.

Informed Michigan farmers, through a publicity system, the significance of certain bills of interest to agriculture which will come before the next congress.

Established sixteen County Farm Bureau bulletins with an aggregate circulation of 35,000, which gives news on both state and county news.

Did much to extend the farm bureau idea, and particularly the practical phase of it, to the other states of the Union.

Made various investigations on agricultural problems in the state, such as woodlot products, sugar beets, stock promotion schemes, etc., the value of which will be developed later.

Developed the idea of crop control through commodity contracts similar to the successful California system.

Disseminated valuable information through thousands of local community meetings called under the joint support of the Extension Department of M. A. C. and the State Farm Bureau, these meetings dealing with control of disease, control of insect pests, standardization of farm products, pure seed, soil building, crop rotation, poultry culling, apiculture and other subjects.

Aided, through seed department, in establishing exhibit classes in the International Grain and Hay Show favorable to Michigan-grown grain and seeds.

Assisted and approved of action of representatives of the Michigan Agricultural College with representatives of Indiana, Wisconsin, Ohio and Illinois, in standardizing Ito San and Holly Brook varieties of soy beans for early and medium late varieties respectively.

Secured supplies of pure Iowa 103 Io war oats from Iowa growers; also Michigan Amber wheat from Indiana for experimental and demonstration work under supervision of the Farm Crops Department of the Michigan Agricultural College.

Kept cooperative association managers, and county agents posted on changes in railroad rulings, tariffs, embargoes, etc., also passed this information on to the members through the publicity department.

Organization.

Brought together ninety thousand farmers for their mutual benefit in one state organization.

Organized sixty-seven County Farm Bureaus, conducted sixty-seven sepa-

rate membership campaigns and assisted in placing these counties on a solid financial and business basis.

Developed distinct departments handling problems of organization, traffic, wool, seeds, farm supplies, and other activities.

Brought the sugar beet growers together in efforts to help them organize.

Helped materially in organization of scores of local cooperative associations.

Organized central selling agency for grain and beans of twenty-four local cooperative elevators, with more preparing to join.

Assisted in organizing twenty-four county seed departments and exclusive selling and buying contracts with County Farm Bureau. More are coming in.

Cooperated with New York, Ohio, Pennsylvania and Illinois in organizing a central purchasing committee for buying collectively, field seeds, particularly alfalfa. Manager Nicolson of this department is a member of this purchasing committee.

Took part in deciding many far-reaching agricultural problems through representation at national, inter-state and intra-state meetings.

Helped in attempts to solve the problems of a national grain marketing system, national live stock exchange and a national wool pool.

Assisted in the inception and development of the program of the American Farm Bureau Federation.

MAKING PLANS FOR THE SALE OF MICHIGAN'S 1921 BEET CROP.

At a conference of representatives of the sugar beet growers from twenty-six counties of the state, held at the offices of the Michigan State Farm Bureau at Lansing, a committee of five representative growers was appointed to draft a plan for the disposition of the 1921 crop. The proposals of the committee will then be submitted to another conference of growers selected by the various counties interested, for further action. The second conference will be called by the committee.

The names of the five growers selected to draft the preliminary plans are: A. C. Smith, St. Clair county; Clarence Oviatt, Bay county; L. H. Kirtland, Monroe county; Thomas Price, Saginaw county, and C. E. Harriot, Clinton county.

At the first session of the conference representatives from the several counties reviewed the experiences of beet growers in their respective counties for the past year. It appears that in some sections the members of the local associations refused almost to a man to grow beets, but in the majority of localities a varying percentage of the members, running up practically to all who joined, turned to the production of beets when it became apparent that a satisfactory arrangement could not be made for the sale of the 1920 crop. Both those who grew beets and those who refused found their advocates in the conference, but notwithstanding this difference of opinion as to the past there was a wholesome spirit of cooperation exhibited when it came to the issue now confronting growers. If one can judge by the apparent temperament of these men it would appear that they are approaching their new task of working out a just contract between grower and manufacturer in a business-like way.



Among the Poland China Herds

Our Circuit Rider Finds Good Hogs, Constructive Breeders and Real Team Work, While Swinging Around the Southern Michigan Circuit

THE present as well as the future of the swine breeding and feeding business in Michigan seems especially rosy to farmers who have suitable feedstuffs and the necessary cash to invest in improved breeding stock. While one can but guess what the prices for breeding animals and pork will be during the next few years, conditions of the last year as a whole have cast long shadows ahead that seem to invite shrewd investment in breeding stock and the better use of farm feeds.

For several years a feeling of uncertainty and even pessimism has prevailed among hog growers. Many breeders have carried only a few sows and neglected breeding until they now find themselves short of good blood. Some predicted that at the close of the war prices for breeding stock would decrease rapidly. That prices have kept up well, however, and that men who have gone ahead improving their blood lines have succeeded in making fair profits is shown by reports of recent sales and the demand for pigs capable of making more pounds of pork from a given amount of feed.

Unprecedented prices for superior breeding animals in the great pork-producing states, together with the development of the large growthy type of pig, capable of making more efficient use of such feed crops as alfalfa, corn, oats, barley and the like, has made the business look good to many farmers who are in a position to keep four or five good sows and dispose of their best pigs for breeding purposes. While all men who invest in pure-bred swine cannot hope to make fabulous profits, there is no reason why any farmer who has the combination of good feeds and the ability to select good pigs and feed them intelligently cannot make the business pay a fair profit.

From a broad, general point of view a steady, conservative growth of the swine industry on the part of the breeder, and the proper adjustment of the farmer to the business with a minimum of speculation, are policies to which no one can object, and which in the long run seem safe for both the breeder and the farmer. Michigan breeders will make a mistake if they try to introduce jazz prices into their business. Such prices are not healthy. For every five-hundred-dollar pig sold to some breeder for five thousand dollars, ten farmers are apt to pay five hundred dollars a head for fifty-dollar pigs. The real success of the Michigan Poland China breeders depends upon developing a bunch of good breeding animals to sell at fair, but profitable, prices and culling out their poorer ani-

mals and sending them to market at a feeding cost which leaves them a margin of profit, as a rule, no matter what the market may do.

During the past three months the Circuit Rider has visited more than eighty breeders of pure-bred swine in Michigan and on none of the farms have conditions been found that could not be approximated, or even improved, on hundreds of other farms in the good farming communities of every county. Among the herds visited last week were those of W. B. Ramsdell, William J. Clarke, A. A. Feldkamp and W. E. Livingston. A brief mention of some of the animals and the lines of breeding practiced may prove of benefit to other men who have an ambition to dispose of their inferior hogs and replace them with animals capable of increasing the profits of the business.

The first visit was at Farewell Lake

Clansman's Image and out of a Giant Des Moines dam. Clansman's Image is the boar that done so much to make The Clansman the most famous sire of the breed. Mr. Ramsdell purchased this boar from T. H. Jackson one year ago at his sale at South Bend, Ind. A litter sister of Clansman's Image II sold for \$1,750 last winter. He is a real boar and is sure to make Poland China history during the next few years unless some unforeseen injury should occur to impair his usefulness.

Another good sire that has been used quite extensively at Farewell Lake Stock Farm is Smooth Wonder, a son of Smooth Wonder 3rd and out of a Big Des Moines dam. He is the embodiment of Big Type perfection, long tail, deep bodied, heavy bone, and stands on strong feet and legs. He has a wonderful strong, broad arched back and weighs more than one thousand pounds. His pigs show remarkable

breeding qualities. Their pigs show strong backs and uniformly good bone. More could be said about other individuals in the herd, but a study of the above blood lines will give the reader an idea of the class of hogs that "Barney" Ramsdell will have to offer in his sale on Wednesday, November 10.

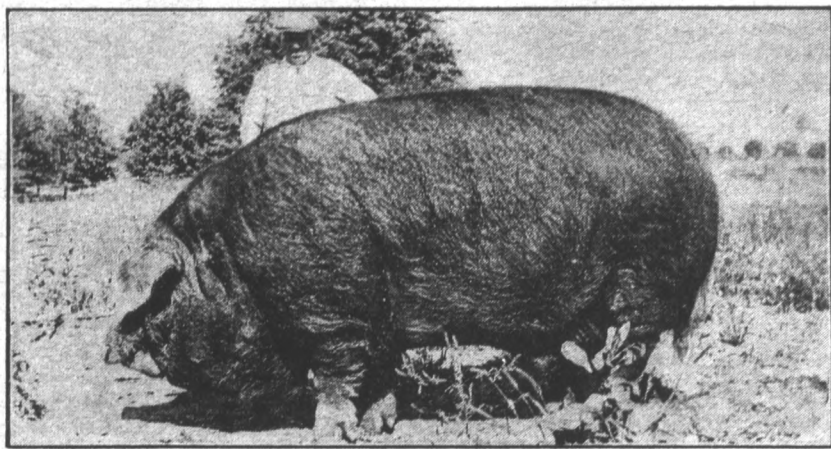
The next herd visited was Wonderland Herd owned by W. J. Clarke, a few miles from Eaton Rapids. Mr. Clarke owns and operates a splendid two-hundred-acre farm devoted to the breeding of Poland China swine and general stock farming. For several years Mr. Clarke has been active in breeding circles and has had successful sales. Always a firm advocate of the Big Type hogs he has been a liberal buyer of the best blood he could find. At present his herd numbers about one hundred and forty head and is rich in the blood lines of the best families of the Poland China aristocracy.

For a senior herd sire at Wonderland Farm, Mr. Clarke has Smooth Wonder 3rd. Good judges of swine agree that he is one of the great boars of the breed. At six years of age he stands up well on his toes and is as active as a kitten. Smooth Wonder 3rd. is the sire of Smooth Wonder, Mr. Ramsdell's herd sire, and also some of the good sows in the same herd.

For a junior herd sire he has Orphan Superior, a son of Big Orphan's Equal and out of Beauty's Choice. This young sire possesses good blood lines, remarkably good type and back development. He carries a coal black, fine coat, nice head and ear and fair length and depth. While strong in all points that go to make up desirable qualities in a breeding sire he possesses too much refinement of type for use in many herds where the sows are strong in this quality. Some of his pigs show up remarkably well and Mr. Clarke has refused two tempting offers for a number of them.

Some of Mr. Clarke's sows have been bred to L's Big Orange and L's Long Prospect, two sires that have made good in W. E. Livingston's herd and which will be described later in this story. Among the brood sows in the Wonderland herd are some exceptionally good daughters of Smooth Wonder 3rd., L's Big Orange and other good sires. One granddaughter of Giant Buster has a litter of pigs from Smooth Wonder 3rd. that are sure to attract attention. One boar pig by Art's Progress is one of the real prospects of the 1920 crop of Michigan Poland China pigs. Mr. Clarke will

(Continued on page 532).



Smooth Wonder III, Wm. J. Clarke's Herd Sire.

Stock Farm a few miles out of Hanover. The farm consists of one hundred and twenty acres devoted to general farming and breeding pure-bred swine. Mr. Ramsdell, who owns and operates the farm, is one of the best posted and most progressive Poland China breeders in Michigan. Beginning four years ago with only a few choice animals he has made steady progress, studying the business as he added to the number of breeding animals in the herd and always profiting by mistakes as well as successes. Mr. Ramsdell has two fine boys who take an interest in the game and know the animals and blood lines better than many breeders who have been in the business for years.

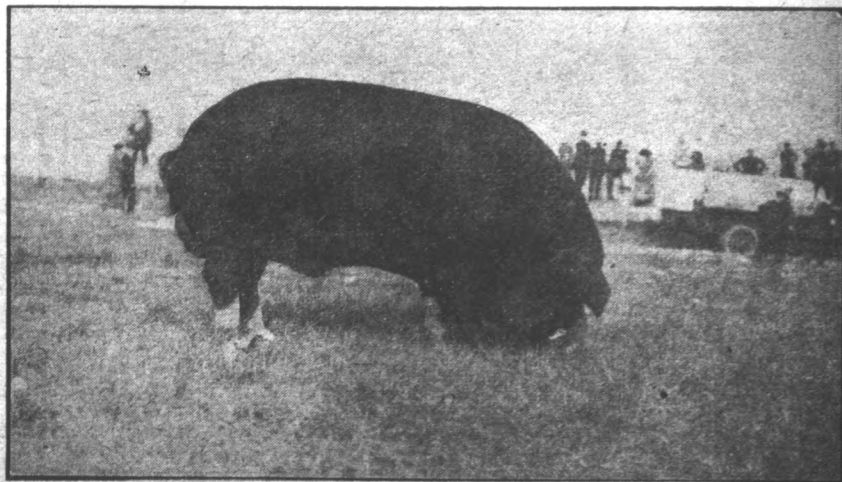
In Clansman's Image II he has one of the most promising young sires in the state, and his future breeding operations will be centered about this boar. Clansman's Image II is a son of

quality and finish and when bred to Clansman's Image II are sure to produce something that will make the boys sit up and take notice.

Among the brood sows are two litter sisters to Smooth Wonder that have litters of pigs sired by Clansman's Image II. These two litters of pigs are in fine condition and possess wonderful backs and good bone. Another splendid sow is Fashion Belle, a daughter of Big Fashion, one of Big Bob's best sons. Her dam is a daughter of Giant Buster. Fashion Belle is one of the best bred sows of the breed and her individuality pleases the most critical judges. She has a litter of spring pigs sired by The Outpost, a young boar that sold for ten thousand dollars at ten months of age; a record price for the breed at that age. Other good sows in the herd are Lady Wonder 3rd. and Nellie R. They are both wonderfully good individuals of proven



Some of W. B. Ramsdell's Poland Chinas.



F's Clansman, One of A. A. Feldkamp's Crack Boars.



THE PENINSULAR PROPERLY PROTECTS PROPERTY

*This Trademark is
Your Protection*

"Common Sense--That's All"

After a recent farm fire, the concerned neighbors asked the owner what in the world he was going to do after such a loss. "Why," came the answer: "My buildings and household furnishings are fully protected at present values."

"What luck," they all exclaimed.

"There is no luck to it," said the farmer. "It's just common sense, and if any of you haven't fully protected yourself against fire loss on the basis of present replacement cost, you had better get busy."

MORAL—DON'T depend on LUCK when you can use good, sound business judgment and be certain of protection.

The Peninsular Way

The Peninsular Fire Insurance Company—Michigan's Big Fire Underwriter—protects farm houses, household goods, barns and other buildings on the same basis that it protects city property—rating buildings according to locations with all protective improvements considered.

A Peninsular Policy completely fortifies the farmer against discouraging fire losses without interfering with any policy he might now be carrying. Just write our Farm Department and complete information will be sent you without any obligation on your part.

And remember—we also protect your growing crops against WIND and HAIL.

THE
PENINSULAR FIRE INSURANCE CO.,
OF AMERICA

Capital \$1,000,000.00

GRAND RAPIDS,

MICHIGAN

COLON C. LILLIE,
President

J. FLOYD IRISH,
Sec'y and Managing Underwriter

SOY BEANS WANTED

All varieties,
Send samples,
State quantity

EDW. E. EVANS,
West Branch, Mich.

Tire Agent

We want one exclusive representative in each locality to use and sell the new Mellinger Extra-Ply, hand made tires. Guarantee Bond for \$5000.00. (No seconds). Shipped prepaid on approval. Sample sections furnished. Don't buy until you get our Special Direct Prices. Write Mellinger Tire & Rubber Co., Dept. 967, Kansas City, Mo.



Most powerful stump machine in the world. Capacity 480 tons. Low easy draft or team, pulls vertical or horizontal on hills or valleys. Full facts. Send for catalog today.

Pontiac Industrial Works Inc., Pontiac, Mich.

Paint Salesmen Wanted

We want good live salesmen, men or women, in every part of Michigan to sell the World's Best House and Barn Paint on our direct from Factory to Consumer plan at the factory price. Good commissions, steady employment summer and winter. Address: GRAND RAPIDS VARNISH CO., Paint Dept., Grand Rapids, Mich.

FOR SALE. Sandwich baling press. Manufactured by Sandwich Manufacturing Company, Sandwich, Illinois. With self contained gasoline engine. All in A-1 condition. Will sell cheap as I have no further use for it. Apply, M. H. Coleman, 742 Meldrum Avenue, Detroit, Mich.

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

500 Ferrets For Sale

O. J. DIMICH, Rochester, Ohio

2000 Ferrets they hustle rats and rabbits. booklet and price list free. N. A. KNAPP & SON, R. 2, New London, Ohio.

FARM-HELP

Wanted Good general farmer for 160 acre modern equipped farm near Detroit. Also single farm hand with Fordson Tractor experience. State age, experience and salary expected. Address Box 8 1016, Michigan Farmer, Detroit, Mich.

WANTED. Married man with small family for large fruit-farm must understand spraying and pruning. State wages expected. References required. Good place for the right man. Box 400, Fennville, Mich.

RAW FURS

SQUARE DEAL GUARANTEED

Because of the uncertainty of the market you can only be sure of getting highest prices when you ship to a long established house.

If prices go up after we issue a price list we pay you the advance but if prices go down we pay our price list.

Established 33 Years

Price List Free

You will be amazed at the high prices we pay. We guarantee a fair and liberal assortment. Send for price list No. 8 or ship today.

N. Sobel, Inc. 22 W. 27TH ST. NEW YORK, N.Y.

"Let the hair go with the hide"



Specialists in tanning Horse, Cow, Calf or any kind of hide with hair or fur on it. We make robes, coats, caps, gloves, muffs, rugs, etc., to your order. You save money and we save your furs. Free catalog of stylish fur garments. Free instructions for handling furs. Fur garments and goods of all kinds repaired and made like new. We mount large and small game, birds and fish. Write today.

ROCHESTER FUR DRESSING CO., 655 WEST AVE. ROCHESTER N. Y.

Learn to Grade Furs!

Write today for our **Free Book** which tells how. Full instructions in Fur Grading told in plain and simple language that all can understand. Study our "Trappers Manual"—it will teach you how to tell if you are getting a square deal in the grading of your furs, the only book on fur grading ever published. Free to Trappers. Also "Fur Facts" and Trappers' Supply catalogue. Get full information about our "Smoke Pump," the wonder invention for trappers.

A card or letter brings all this information FREE. Write today.

ABRAHAM FUR COMPANY
213 N. Main Street St. Louis, Mo.

Traffic Department Justified

ROLAND MORRILL, president of the Michigan State Farm Bureau, past.

himself a well-known fruit grower, describes the fruit situation this year and the part the traffic department of the Michigan State Farm Bureau has played in solving the situation as follows:

"For nineteen years the fruit industry of the western part of Michigan was built around the system of refrigerator distribution. The action of the wholesale grocers against the Chicago packers last year resulted in driving the packers out of the fruit transportation business. They sold their car lines to the Atlantic Coast Line and the Central Georgia Railways, leaving Michigan with no definite or reliable system of refrigerator cars.

"The only cars owned by railroads in this state were the M. D. T.'s owned by the New York Central, which only possessed forty per cent of the cars they needed to handle their own traffic.

"Augmenting this abnormal situation, this year brought forth a phenomenal crop of fruit in Michigan, nearly all varieties producing heavily. In the absence of any concerted effort on the part of anybody well informed the railroad companies knew little or nothing of what the requirements would be up to within one month of the time when the great demand was to be made upon them for refrigerators.

"This condition was brought about, not by lack of good intentions, but through the fact that the railroads were being taken back into private ownership and the work which should have been done by the government, looking toward future service had not been done.

"At about this time the traffic department of the Michigan State Farm Bureau was organized with Frank E. Coombs as director. The first problem was to release the canning industry from a condition that threatened to wreck the canners and cause serious loss to the farmers who were furnishing them their fruit. Orders for four hundred cars of cans and thirteen hundred cars of coal, which had been accepted and filled, were standing on the side tracks in distant cities. There was no action and the crop was beginning to ripen.

"The traffic department stepped into the breach and within one week secured action which resulted in the canners getting the goods they needed and the farmers got the benefit.

"About this time it was discovered that the other crops were going to be very much larger than originally anticipated and the refrigerator car matter assumed desperate proportions. The state authorities did not appear to be getting any results when appealed to, but the traffic department of the farm bureau took the matter up and the result has been that up to this date about six thousand cars of perishable products have been loaded in refrigerators and rolled to destination in very good order considering the chaotic condition under which the reason started. With a fair prospect of our getting four or five thousand more cars which are being gathered in the state, this year's crop will be reasonably well taken care of.

"The loss of a reliable refrigerator system to Michigan through the action of the wholesale grocers' organization and some officials of our state has resulted in the loss of millions of dollars to the fruit growers and canners of the state of Michigan and is very much to be regretted, but it is probable that this industry was not taken into consideration in the legal efforts made to stifle the competition furnished by the packers which resulted in bringing the producers and consumers closer together than they have ever been in the past.

"The farm bureau has the situation in hand as far as it is possible for parties not having financial interest in the operation of railroads. They seem to have the confidence of the railroad authorities through the traffic department and they are certainly getting willing cooperation from the railroads to the extent of their ability and it is hoped that the situation will be greatly improved before another crop has to be handled.

"On the whole, we are quite well pleased with results, considering the adverse conditions we had to contend with."

An illustration of the vital need of the traffic department is shown in the words of another large fruit grower:

"Every day a certain number of cars would be brought into the local train yards and the word would be passed from mouth to mouth, 'The town is all right for today.'"

Many other towns were in this same position. They depended absolutely upon the traffic department to get them enough cars to market their crops. If the fruit growers had not had cars for one day in any section, their crop would have been ruined. They would never have caught up.

A farmer of Beulah, Benzie county, says: "I had six hundred bushels of peaches one Sunday, if I had not had a car on Monday morning they would have been lost, but the car was there."

Marketing of his crops expeditiously has always been one of the biggest problems of the year to a farmer. A big percentage of his products must move from the farm to market promptly. And whether cars would be on the siding in his community when he needed them has been a gamble that kept the average farmer, whether in Michigan, or Maine or California, on pins and needles.

The fruit men have seen this year and in past years thousands of dollars rot in barrels, crates and packages, just because the refrigerator car or cars that the station agent promised failed to be cut off at that point. And the live stock men have oftentimes had stock assembled ready to load on a scheduled day, only to experience an exasperating wait of several days and see a shrinkage in the weight of their penned-up stock that cost them cold dollars and cents in the meantime.

One factor that contributed largely to this condition was the fact that the railroads, big corporations with multitudinous details to handle, frequently mislaid or ignored or forgot requests from individual shippers, who as frequently as not filed their requests for equipment at the eleventh hour.

Now to a material extent conditions have changed in Michigan. The railroads have more confidence in the farmers, because those farmers have instituted an agency that continually has direct contact with the railroads and which the railroads know they can intelligently and congenially deal with. It is the Michigan State Farm Bureau's state traffic department.

This agency is in position to anticipate car requirements of localities, make applications for equipment and follow through the requests. The railroads say they are ready to listen to this one big agency instead of halfheartedly heed the demands of hundreds of individuals and organizations. The change has been in the interests of economy and efficiency.

In speaking of the qualifications of the State Farm Bureau to voice the equipment needs of the farmers of the state, C. C. Corlett, general manager of the Fruit Growers' Express Company says: "No one is better qualified to speak upon this subject than you are."

Why Cloverland?

By L. A. Chase

CHIPPEWA county has about two thousand five hundred carloads of hay to ship this season, reports County Agricultural Agent E. L. Kunze, of Sault Ste. Marie. This easternmost county of the northern peninsula has much heavy clay soil that for years has produced heavy crops of clover and timothy hays. About two-thirds of this year's crop is mixed-clover and timothy; the rest, timothy. The practice of raising hay in Chippewa county arose in the days when farmers had to put in much of their time working in the woods and there was little time left for crops that require attention. It is recognized that this long-continued exportation of hay from the county is bad for soil even as rich as that of Chippewa county, and there is now a tendency to turn to dairying. Some four hundred farmers, Mr. Kunze reports, have contracted to sell their hay through the County Farm Bureau, now a flourishing organization of thirteen hundred members. Houghton county also has shipped some hay this year, notably fifteen carloads to Winnipeg, this spring, to relieve the forage shortage in northwest Canada. Chippewa's hay, this season, is reported to run from one to three and one-half tons per acre.

While this section is called "Cloverland," because of the luxuriant growth of the crop in many sections of the peninsula, little clover seed is produced here so far as I can learn. A common reason given is the shortness of the season and the interference of fall rains at maturing time. The rich clays of southern Ontonagon county grow clover in abundance and in a wild state, and here clover seed is successfully grown. One thresherman reports yields of alsike seed as high as six bushels per acre, with three and four bushels the average. Red clover seed is secured from the first cutting.

Some Unthought of Products.

That the upper peninsula has millions of acres of land never touched by the plow, permits the growth of many natural products of vegetation that usually do not figure as a Michigan farm crop. Almost by accident the secretary of the Upper Peninsula Development Bureau, Mr. J. A. Doelle, recently elicited the fact that from one hundred thousand to one hundred and fifty thousand pounds of club-moss go out of this country to one Indiana firm alone to be used for decorative purposes, after being dyed and properly prepared. An upper peninsula exporting concern likewise reports shipments of this material and ground-pine amounting to some three hundred tons in a year. Weddings and funerals calls for much of this material. The gathering of it makes work for country children, who are said to be paid

three to four cents per pound for collecting it.

That enormous quantities of berries go out of this country in their season is well known, especially by the railway men who have to handle them; and now comes L. M. Geismar, County Agent of Houghton county, with the discovery of a true white, or nearly white, raspberry, growing wild near Toivola in that county. Mr. Geismar believes this is no freak and has obtained seed for propagation this fall and next spring. This white raspberry is said to be much sweeter than the red type. Mr. Geismar is not satisfied with the Michigan blueberry and is going to try to grow a much larger type from stock obtained from New Jersey where a berry comparable with the cherry in size has been developed. The "Calumet News" recently announced the discovery of a distinct new berry, of delicious quality, in a swamp nearby; but little authentic has been learned regarding it. So our cut-overs produce something besides brush-fires and delinquent tax lands. One successful honey-producer near Iron Mountain believes in a future large honey industry in this section because the bees find an unrivaled source of supply on the same cut-over areas. Finally a recent Menominee report states that a local farmer has shipped to Chicago one hundred pounds of golden seal for which he received \$600, and that he still has one thousand pounds to ship; and that he regards that locality as excellent for its production. To many people this is real "agricultural" news.

Fires Under Control.

The forest and brush-fire situation in the west portion of the peninsula, which was pretty bad early in the week of October 11 has greatly improved since the general rains during the week, heaviest where they were most needed. There was some destruction of farm property in Gogebic and other western counties, and lumbermen suffered considerably. That many fires were set close to the railroads suggests that hunters were not wholly responsible for the condition. Frosts continue to hold off remarkably well in the lake shore areas. Marquette has had no killing frost up to October 17, with none in prospect, the lowest official temperature of the season being thirty-nine degrees at the end of September.

Developing Community Spirit.

It has become quite the fashion for an upper peninsula community to have a pageant. Sault Ste. Marie had its pageant in June to commemorate the one-hundredth anniversary of the coming of the American flag to the northern peninsula of Michigan with Governor Lewis Cass as its bearer. On



Cabbage on Farm of Robert Blemlhuber, Near Marquette.



A Willing Servant For Winter Chores

No more efficient or useful utility has ever been designed to serve the man in the country than the Midwest Utilitor. It is the trusty servant of the farm and farm home because of the things it will do at a time when animal power is carried at a loss—in winter.

Now is fuel-gathering time. A Utilitor will "snake" big logs to your barnyard and there it will run your wood saw. In no time this little bundle of power will accumulate your fuel supply for the winter.

You can haul your saw to your neighbors and cut their wood—thus making the Utilitor pay its way.

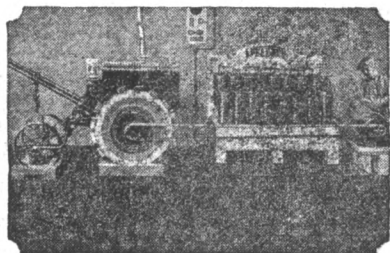
Use It With a Snow Plow

Especially at this time of the year the Utilitor comes into its own. With snow to be cleared, this sturdy utility equipped with even a make-shift plow will keep the paths open to barn, chicken houses, hog houses and around the house.



Will Help Light Your Home

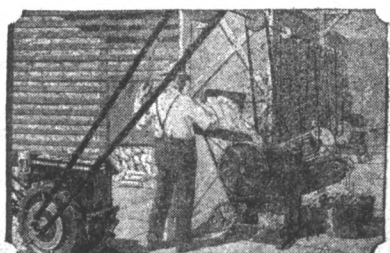
Besides keeping you warm the Utilitor will help light your home. A Utilitor and a lighting set, designed for use with this machine, can be purchased from any Utilitor dealer for only a few dollars more than a lighting set alone.



Dependable For All Belt Work

All winter long you can depend on your Utilitor to grind feed, shell corn, turn a grindstone, pump water, run a cream separator, washing machine or churn. Such belt work can be done either on an individual or a line shaft.

If you would know more of what this machine can do, go to your dealer and let him show you. He will demonstrate its uses gladly. The Utilitor is useful 365 days a year.



DEALERS—You can make a Midwest Utilitor selling franchise a valuable addition to your present line. Write today for all the profitable facts.

MIDWEST ENGINE COMPANY, INDIANAPOLIS, U. S. A.

MIDWEST
UTILITOR
DEPENDABLE POWER

Save Gasoline! Save Your Motor! Save Money!



THIS AD. SAVES YOU \$2.00

Use "SURE SPARK" plugs, the best plug on the market. They fire through oil or carbon. They will not foul. They drain the oil away from the firing points. They give a powerful rich spark. Every plug guaranteed.

"SURE SPARK" plugs sell regularly for \$1.00. For 30 days only, as an inducement to become a user cut this ad out and MAIL WITH \$2.00 and we will send you 4 plugs by return mail.

Michigan Spark Plug Co.

44 Larned St. E.,

Detroit, Mich.



Frank J. Sawyer Farmer Candidate for State Treasurer

[Democratic Ticket]

I am a plain farmer, operating the farm where I was born in Genesee county. Member Farm Bureau and other farm organizations. Have assisted in organizing farmers' elevators and other co-operative enterprises. Have co-operated with my fellow-farmers all my life and I respectfully ask them, regardless of political views, to co-operate with me by splitting their ticket on state treasurer and giving me their votes. I shall appreciate this support and shall show my appreciation, if elected, by an honest and efficient administration of Michigan's finances. —Advertisement.

GET THE HIGHEST PRICES FOR YOUR BEANS AND GRAIN

by cleaning and having them put in shape for market. We operate the largest elevators in Michigan specially adapted for picking and cleaning beans, grading and cleaning grains and putting them in shape for the highest market prices.

We will buy or store your beans, keeping you advised of market prices, ship them anywhere you may sell them or sell them for you ourselves when you desire.

Before you sell write for particulars regarding our service. Write today.

GLENER CLEARING HOUSE ASSOCIATION
GRAND RAPIDS, MICHIGAN

Prepare For Winter Now With A Wolverine Indoor Toilet

Your Comfort and Convenience is worth many dollars to you this winter a few dollars will bring modern city comfort to your home. A country housewife with a Wolverine never envies the city housewife. Write today for catalog.

DAIL STEEL PRODUCTS CO.

310 MAIN ST.,

LANSING, MICH.

MINERAL HEAVE COMPOUND
In use over 50 years
CURES HEAVES
Booklet Free
\$2.25 Box guaranteed to give satisfaction or money back.
\$1.40 Box Sufficient for ordinary cases. (Includes War Tax.)
MINERAL HEAVE REMEDY CO., 463 Fourth Ave., Pittsburgh Pa.



ABSORBINE STOPS LAMENESS

from a Bone Spavin, Ring Bone, Splint, Curb, Side Bone, or similar troubles and gets horse going sound. It acts mildly but quickly and good results are lasting. Does not blister or remove the hair and horse can be worked. Page 17 in pamphlet with each bottle tells how. \$2.50 a bottle delivered. Horse Book 9 R free.

ABSORBINE, JR., the antiseptic liniment for mankind, reduces Painful Swellings, Enlarged Glands, Wens, Bruises, Varicose Veins; heals Sores. Allays Pain. Will tell you more if you write. \$1.25 a bottle at dealers or delivered. Liberal trial bottle for 10c stamps.
W.F. YOUNG, INC., 268 Temple St., Springfield, Mass.

Fistula

10,000 horses successfully treated last year with

Poll Evil

Fleming's Fistoform \$2.60 a bottle postpaid. Money back if it fails. Send for FREE Vest Pocket Veterinary Adviser. Describes Fistula and 200 other Horse and Cattle Diseases.
FLEMING BROTHERS, 252 Union Stock Yards, Chicago

Good Reading

OFFER No. 109.

The Michigan Farmer, one year..\$1.00
People's Popular Monthly, 1 year .35
Home Life, one year35
Gentlewoman, one year..... .25
Household Journal, one year..... .35

Total value\$2.30
All for \$1.70.

July 5, Marquette county had a pageant forward, are the following items: in which people from all over the county participated—town and country alike. And now Gogebic county winds up the season with its pageant on October 12—"Columbus Day," seen by ten thousand people and participated in by five hundred performers. The Marquette county pageant was held beside Teal Lake, midway between Ishpeming and Negaunee, in one of the loveliest settings imaginable, while the Gogebic event took place at the Golf Links between Ironwood and Bessemer. These affairs help mightily to bring about a genuine community spirit in the county and mingle together rural and city folks and folks of all degrees.

To promote the stocking of the inland waters of the upper peninsula with suitable duck-feed, J. A. Doelle, of the Upper Peninsula Development Bureau has from time to time made plantings of wild rice, formerly native to the southern counties of the peninsula, wild celery and sago pond weed. Among odds and ends of agricultural news of the peninsula recently brought

forward, are the following items: Houghton county expects to ship from one hundred and twenty-five to one hundred and fifty carloads of potatoes. This is one of the important potato-shipping counties of the state. Dickinson county also reports a large potato yield of some two hundred thousand bushels. A Bark river, Delta county, farmer has produced some exceptionally good potatoes on his muck land through an application of lime, potash and manure. Other experiments in the peninsula seem to demonstrate the great utility of potash on muck land.—A group of Gogebic county farmers have purchased twenty-seven head of Holsteins for \$10,000, after an inspection trip into Wisconsin. This is a valuable addition to the pure-bred stock of the county, including both bulls and cows.—The campaign for members of the farm bureau in Houghton county was concluded the first week in October, it is reported, and now the work of organizing locals, of which there are to be fourteen or so, is under way. Baraga county is now being organized.

Among Poland China Herds

(Continued from page 529).

hold his third annual sale Tuesday, November 9.

The next herd visited was that of A. A. Feldkamp, five miles out of Manchester. Mr. Feldkamp owns and operates an excellent one hundred and sixty-eight-acre farm with Poland China swine as his specialty. During the past four years he has been actively engaged in breeding up a herd of pure-bred swine and has always aimed to produce the best within the breed. Feldkamp is sort of a quiet, unassuming chap who listens while the other fellows do the talking, and then goes out and buys the best and breeds them better. His 1920 show herd at the Michigan State Fair proved an eye-opener to many breeders who came there fully satisfied with the class of hogs they had been producing for years. His under-a-year boar pig, F's Clansman, a son of Lord Clansman and out of Buster's Orange, a daughter of L's Big Orange, proved the real sensation of the 1920 State Fair. Lord Clansman, the sire of this grand champion under-a-year boar, is a son of The Clansman and out of Silver Brook Model. Mr. Feldkamp is keeping F's Clansman for a future herd sire and has every reason in the world to expect his pigs to justify his choice.

Another splendid boar being used in the Feldkamp herd is Smooth Buster, a son of Buster Giant 5th and out of Princess Wonder, a daughter of Big Smooth Wonder, and out of Lady Jumbo. Smooth Buster was junior yearling champion at Detroit this fall and is a wonderfully good sire. With these two sires in his herd Mr. Feldkamp has two lines of breeding that nick well wherever they have been given a fair chance.

Among the brood sows in the herd, Smooth Wonder and Buster blood lines predominate and have meant everything in producing the best individuals in the herd. One of the crack sows Princess Wonder has proved a remarkably good breeder and produced pigs that were prominent among this year's winners at Detroit. In breeding condition she will tip the scales at seven hundred pounds and is two years of age. Her litter mate, Pride Wonder, is another good sow and farrowed thirty-one pigs before she was two years old. Her sister, Queen Wonder, is one of the foundation dams of the herd. Mr. Feldkamp will hold a sale some time in January.

After visiting Ramsdell, Clarke and Feldkamp, and inspecting their herds and blood lines, the Circuit Rider could not resist the temptation, as well as the invitation, to visit the fountain

source of some of the prominent blood lines in these herds. We started for Parma to visit the farm of W. E. Livingston. A number of years ago when college professors and writers for farm papers were telling farmers that baby pork was the thing, Bill Livingston began to scratch his head over the matter and look around. He found that out in Iowa there was a man named Peter Mouw who had preserved in his herd all of the old-time vigor and prolificacy of the breed. Instead of looking like a duck egg on four carpet tacks these Poland Chinas had four real legs and a big, strong arched back that looked like a rainbow of hope to Bill after he had been harassed by the professors and farm press, so he took a trip to Mouw's farm and invested in some of his big type breeding stock. That was some time ago, and now that this type has come thundering back into favor we will forgive the professors and press and extend a vote of thanks to Bill Livingston for preserving seed stock for Michigan breeders. That is enough for any one man to do, but Bill Livingston is not satisfied to retire from the game until the Poland China breed regains the lead from their Duroc Jersey rivals.

Among the herd boars at the Livingston farm is L's Big Orange, a big three-year-old son of Orange Bud and out of a Chief Price dam. This is a boar of excellent type, big bone, straight lines and strong arched back. Experienced breeders agree that he is one of the outstanding aged sires in Michigan.

Lord Clansman, a son of The Clansman and out of a Giant Buster dam, has proved an exceptionally good sire, and so many of his pigs have been winners at this year's shows that no further comment is needed to prove the prepotency of his blood lines. As an individual he is all that could be desired in a herd sire.

Another boar of which Mr. Livingston is anticipating great things is Daddy Longlegs. This boar has a back higher than a mad cat and four legs capable of supporting twelve hundred pounds of pork. He will bear watching.

Mr. Livingston has a group of large, prolific sows bred along Orange, Giant Buster, Big Des Moines, Big Bone Model, Big Orphan and Emerick's Chief Lines. Three young sows by Lord Clansman and out of Buster Lady are as near alike as three peas.

These sows are litter mates to F's Clansman, the young boar exhibited by Feldkamp at this year's State Fair. More could be said about the sows in this herd, but what's the use?

Better Farm Flocks

(Continued from page 527).



Dormant Ovary—36 Eggs.

of thumb passing gently against the lower flight feathers. Held in this way the hen makes no effort to escape. By using the left hand, measurements are easily obtained, both for quality and capacity of egg sack. The right leg of the hen should be free, otherwise a cramped condition of the egg sack results, diminishing capacity measurements and inating the egg sack.

The capacity measurements and inflating the fluctuates according to the rate of yolk elaboration. It is an indication of immediate production. A good layer must have a large capacity, but all hens with a large capacity are not good layers.

There is a greater variation in the quality of the egg sack than in the capacity of laying hens. Ordinarily the laying hen will show a spread of from four to six fingers capacity. This does not mean that all hens with equal capacity are equally good layers nor is the hen with the largest capacity necessarily a better layer than the hen of less capacity. Here is where the quality test should be supplemented to more accurately determine each hen's ability to produce.

The degree of quality is determined by the flexibility of the egg sack. It should yield readily to pressure, directly above the keel bone, and below and between the pelvic arches. The egg sack should be full, mellow, warm, and lifelike to the touch. The skin is fine and elastic, similar to the loose mellow hide common to the best dairy cows. The best dairy breeders in the country acknowledge that the cow with the finest handling qualities of udder is the most persistent milker and the hardest to dry up. Likewise the hen with the best quality of egg sack is the most persistent producer.

Capacity indicates the rate of yolk elaboration on the cycle of production but quality of egg sack determines the persistence of rhythm or the number of months the hen will be productive.

Pigmentation Changes.

Egg farmers generally are familiar with this bleaching process commonly referred to as the pigmentation test.

It has a practical value in culling during the summer and is essentially a test for the novice. To the student of egg types, greater stress and more importance is attached to the actual body conformation.

Both the rate of bleaching and the degree of pigment must be considered. Heavy winter layers that have been used for incubation and brooding purposes will show a very light yellow in the shanks indicating a previous bleached condition followed by a rest period. Highly colored shanks of golden hue, indicating greater density of pigment, of course, have not had the physical strain on their system of heavy production. Whereas, all hens displaying an abundance of pigment in all sections, including vent, eye ring, face, beak and shanks have not produced profitably due to either the fact that they are constitutionally poor layers or have been denied the happy environment that makes for production. The rule does not always work inversely but is generally reliable and accurate in the first laying year.

A few conditions where judgment must be exercised is in the case of older hens, exhibiting white legs due to lessened vitality. Pullets suffering from ovarian disturbances, will frequently show a bleached condition, but the quality of egg sack test immediately reveals the hardened mass of yolks in the body cavity.

Production and vitality are both manifested in the rate of bleaching. Hens of the three-hundred-egg class do not show an entirely bleached condition of the shanks until a record of one hundred and fifty eggs or better is recorded, whereas a one hundred and forty-egg hen often bleaches entirely at the half-way mark of seventy eggs.

We are no longer laboring under the delusion of the early moulting hen filling the egg basket during the winter months. Egg laying contests are not always decided until the last day of the last month.

Big records are impossible where the production is limited to a few months, so persistence of production is of great importance. It is hens of the marathon type rather than the sprinters that cover the distance of



Quality—256 Eggs.



Beefy Sack—48 Eggs.

When Coffee Disagrees—Use POSTUM CEREAL

Coffee drinkers, who switch from their accustomed table drink, almost always turn to Postum, because of its delicious coffee-like flavor.

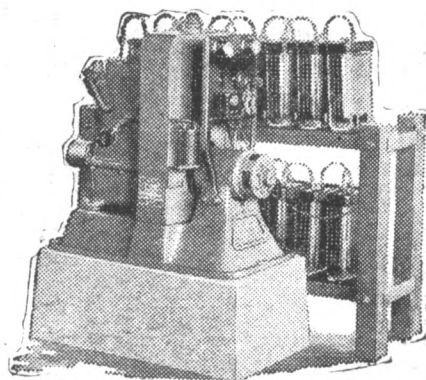
There's no harm to health in Postum. Much as it tastes like coffee, there is no coffee in it. Boil Postum a full fifteen minutes, and you develop that rich flavor you so much like.

"There's a Reason" for POSTUM

Made by Postum Cereal Company, Inc., Battle Creek, Mich.



LIGHT AND POWER FOR THE FARM



"More power to it."

Why not enjoy the conveniences of modern electrical appliances? Why not help relieve the labor situation by having belt power to operate your farm machinery? These things are possible at the same time with a LITSCHER LITE plant.

Up-to-date farmers and suburban residents everywhere are realizing the need for LITSCHER LITE. Thousands have learned that this stationary engine power and light plant is absolutely safe, easy to operate and runs with practically no attention. Gives complete satisfaction on a small amount of kerosene, oil and water, occupies little floor space, and is positive in performance.

LITSCHER LITE is guaranteed to give satisfaction. It has been designed for you. It will solve many of your help problems. It is the plant you will eventually buy. Investigate its merits NOW.

Mark (X) in one of the squares below, sign your name and address on the margin and send to

C. J. Litscher Electric Co.

Distributors
Grand Rapids, Michigan

☐ Without obligation on my part, tell me more about Litscher Lite.

☐ I am interested in becoming a farmer agent. Tell me your proposition.

When You Write to Advertisers Please Mention This Paper



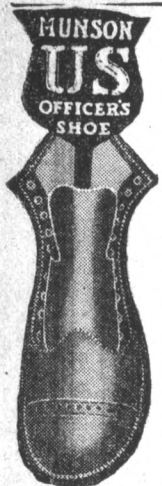
ACME
Oil Burning Tank Heater

The tank heater with the improved burner. Different from others. New Features. No sparks, no smoke, no ashes, no danger from fire, no heat wasted. All heating space under water. Compact, convenient and easily handled. Keeps water at even temperature in coldest weather. Made of heavy steel. All seams welded. Fits any wood, steel or concrete tank. Pays for itself first year. Don't buy until you get the facts and price of the Acme. It's Guaranteed.

ACME NON-FREEZE Hog Waterers

Made of galvanized iron. Three different styles to choose from. All guaranteed not to freeze. Live Farmer Agents Wanted. Write today.

ACME CO., 150 Main St., Washington, Ia.



MUNSON U.S. OFFICER'S SHOE

A SPECIAL Factory Cut-Price

U. S. Officer's Shoes

Hand sewed, first grade factory, cut-down price direct to you at only \$6.85. Made of the best Water proof Mahogany calf leather. If these shoes are not just as we say, send them back. You do not lose a cent. Retail price of this shoe is \$10. Built for work and dress at the same time. If you are sending money order or check do not include postage. Pay only for shoes. We pay postage.

U. S. Army Marching Shoes

First grade factory, cut-down price. Direct to you at only \$5.15. Retail price of these shoes is \$8.00. Made of the best elk skin waterproof leather.

U. S. NATIONAL MUNSON ARMY SHOE CO., Inc.
Dept. 863 Westfield, Mass.



VETCH Separator

—FOR—
Separating Vetch from Wheat Rye or Oats

The Sinclair Scott Co.
Baltimore, Md.

PUBLIC SALE

Buy as Uncle Sam buys "the best" now offered at Auction Bargain Prices.

ARMY AND NAVY GOODS

- U. S. Army Wool Blankets (Olive Drab reclaimed) \$5.50
- U. S. Army O. D. Wool Shirts 5.50
- U. S. A. Trench Coats (S.L.) 15.00
- U. S. A. Leather Dress Shoes 8.00
- U. S. A. Socks (heavy wool) pair .50
- U. S. A. O. D. Wool Breeches (reclaimed) 2.50
- Army and Navy Knit Gloves (heavy wool) pair .75
- Army and Navy Underwear (heavy wool) garment 1.50
- and 5,000 other articles for fall and winter wear. SEND 10c FOR ARMY & NAVY CATALOG 110.

ARMY & NAVY STORE CO.
245 W. 42d St. New York
Largest Camp & Military Outfitters

BIG MONEY

Selling Eagle Sawing Machine

Every timber owner needs one. Powerful, fast-cutting, saves the natural way. A demonstration sells it. Representatives making from \$80 to \$300 a week. You can make **\$2.00 An Hour** sawing wood while demonstrating. Write today for full information and Special Low Agent's Prices.

Eagle Sawing Machine Co.
Dept. 262 Kansas City, Mo.

Dickey Glazed Tile Silos

Best of materials, six different diameters, everlasting hollow tile roof, easiest to build—such features as these have made the Dickey pre-eminent among silos.

The Fruit Jar of the Field
Send for catalog No. 9

W. S. Dickey Clay Mfg. Co.
Macomb, Ill.
Kennesaw City, Mo. Chattanooga, Tenn.

two hundred eggs or better. One should look well to the long-season layer.

Ordinarily the late moulting hen presents a ragged and tattered appearance towards the end of October. This is due to the brittleness of the feathers which seem to undergo changes similar to bleaching of the pigment from shanks and other sections.

The hen on millinery display presents a sleek, unbleached condition indicative of her past performance in terms of low egg yield.

Systematic culling of the farm flock should be practiced continuously from the first of July until the middle of September, eliminating the unprofitable hens as they cease producing.

These can be readily detected by three simple tests, namely: "The bleaching of the pigment from the shanks and other sections, which indicates past production. Secondly, the spread or contracted condition of the egg sack for present production, and lastly, the presence or absence of pin feathers, which indicates future production for that particular season. Briefly, a hen with yellow legs, contracted egg sack and early moulting possesses all the sins of a poor layer and the opposite holds good for heavy layers.

While the last culling should be concluded about the middle of September, all hens that are still laying at this time can be considered profitable, but

there is a very important phase to be conducted during October or early in November. The exceptional layers are still pegging away when the day's work means six or seven cents for every egg produced. These are the most desirable hens in the whole flock and should be banded as special breeding stock from which all of next season's chicks should be derived. In this way we not only weed out the drones, but build up a heavier laying flock. It is quite obvious the hen that can withstand the strain of ten or twelve months' production, will not only give a higher egg yield, with its increased profits, but she also has the vitality so necessary for reproduction.

1920 National Dairy Show

THE National Dairy Show knows not the meaning of the word retreat; its fourteenth exhibit, upon which the gates have just closed, climaxed all previous efforts of the capable management. In beauty and utility of the cow, in profusion of mechanical appliances, in attendance, in space occupied, in artistry of setting, in instructiveness of educational exhibits and in comprehensiveness it was a superlative show.

This year, for the first time, the sphere of the show's influence was extended to the small breeder, even to the man with but one good cow. The state herds, made up of ten animals each, selected by the state breeders associations greatly extended the entry list and caused many men who otherwise never would have done so, to become a part of the show. Only two breeds, the Holsteins and Guernseys, mustered the necessary five state herds, however. State pride and breed partisanship will undoubtedly stimulate a big expansion of this feature of the show in future exhibitions.

Entries in the dairy products division were more numerous than ever before and the quality ranked high. Two new classes for storage butter were included for the first time. The butter was unsalted, of the kind known as "Navy," an outgrowth of the war trade, and had been kept in storage for four months.

Dairy equipment was shown everywhere. Artistically environed with palms, ferns and autumn leaves in uniform booths with a spick and span appearance that suggested a hospital operating room, the machinery exhibit was wonderful. A wealth of inventive genius is being expended in finding new processes and supplying better machinery for dairymen and their industrial co-laborers in the work of furnishing clean and sanitary milk and its products to the human race. No consumer could fail to be impressed by the evidence of the intricacy of the industry which brings milk to his door step. If any known device of value was not represented it was not missed. New processes were not numerous, but they were there. The electric method of purifying milk, now used to some extent in Detroit, was never shown here before. Carbonated ice cream and a new form of condenser were other new developments of the year. The small milking machine for the man with a few cows and the more extensive application of the truck to milk transportation were natural outgrowths to labor shortage and railroad inefficiency. A complete list of this feature of the show covers the entire range of dairy activity. Feed cutters, barns, silos, barn equipment, milking machines, cans, bottles, bottle washers, sterilizers, cleansing agents, capping machines, various kinds of crowns, milk wagons, milk tank trucks, delivery trucks, refrigerator trucks, freezers, evaporators, pasteurizers, milk drying machines, emulsifiers, re-

frigerators, engines, thermol apparatus, conveyors, ice cream makers' supplies, all were shown in actuality or through miniatures with a wealth of nickel plate, glass, enamel and burnished copper.

A day's time would not suffice for the study and assimilation of the exhibit, which portrayed the work of the United States Department of Agriculture in the field of dairying, although it was presented in graphic style with all manner of animated devices to register impressions quickly. A vast amount of literature was distributed and numerous specialists were in attendance to explain and answer questions. The results of cow-testing associations were shown by charts and figures and by a demonstration herd of twelve cows, some good, some poor, selected from herds belonging to a Wisconsin cow-testing association. Speakers drafted upon the ground, talked about various phases of dairy production to visitors at this exhibit. The work of the National Bank at Grove City, Pennsylvania, in building up an interest in dairying in its community and the gain to the bank from such constructive work, constituted an eloquent sermon. The benefits from the use of pure-bred sires, as well as a practical means of obtaining them at low cost; the control of infectious diseases and the development of accredited herds, which amounts to a clean bill of health so far as tuberculosis is concerned, and the importance of an ample supply of minerals, especially calcium and phosphorus in the ration of the dairy cow, were the subjects of other booths. The business and marketing side of dairy production was not overlooked, accounting methods in dairy organizations, market inspection of dairy products, cooperative purchasing and marketing and the work of reporting markets and gathering statistics of importance to the dairymen were featured. Graphs, charts, samples of daily mail reports sent free from government offices with the latest telegraphic news on the butter and cheese markets were on display. Making Swiss cheese in the United States by methods developed by the department of agriculture was another feature.

The advertising value of the recent findings of science upon the value of milk as a food, was used to the utmost in the exhibit of the government and also in that of the national dairy council. The benefits of adding milk to the diet of under-nourished children were illustrated concretely. Models were used to show relative butter and cheese consumption in this and other countries. The visitor learned that our annual per capita butter consumption is 17.5 pounds, but Denmark, New Zealand and Australia consumes still more. In cheese consumption, the United States stands toward the bottom of the list with 3.8 pounds per capita annually. Italy, Norway, France, United Kingdom, Denmark, Nether-

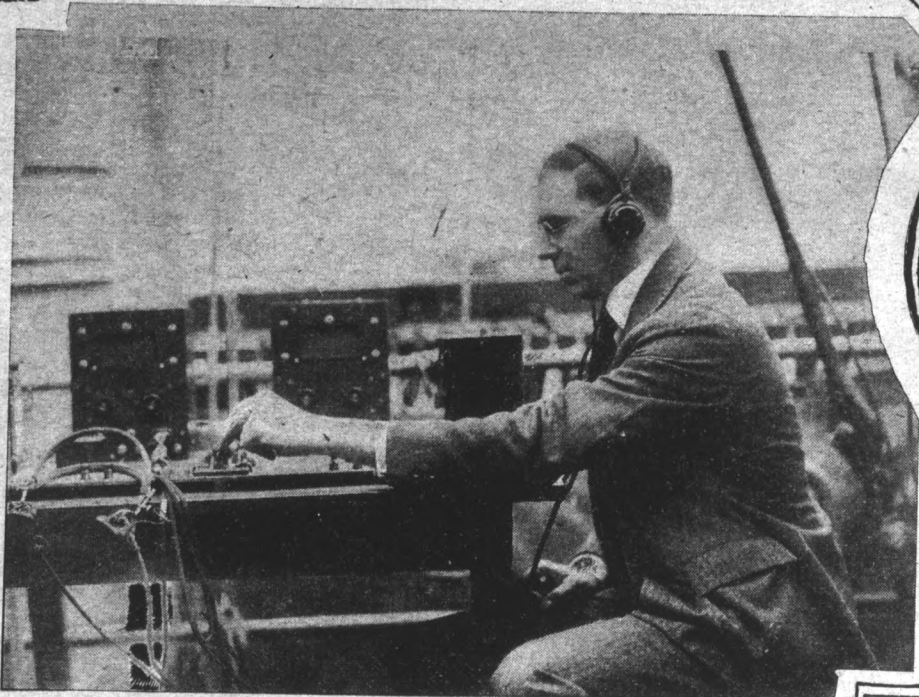
lands and Switzerland all consume more cheese than we do. Switzerland consumes seven times as much per capita. Models were used also to show the consumption of various forms of dairy products in the United States. The daily consumption of cold milk amounts to one pound; butter two-thirds of an ounce; ice cream, three-fourths of an ounce; cheese, one-sixth of an ounce; condensed milk, one-half ounce; milk powder one-eighth of an ounce, whereas, according to the national dairy council these amounts should be just twice as great. Instead of spending twenty per cent of the family's food money for dairy products and eighty per cent for other foods, as is now the case, forty per cent should be spent for dairy products. Thus would be made possible the maintenance of a larger number of cows possessing higher than the present average yielding capacity.

In the students' judging contest, twenty-one teams representing the agricultural colleges of almost half of the states in the Union competed. Kansas won. This feature may seem unimportant to the average breeder, yet each year it binds a group of progressive young men who are likely to become the leaders of the future to the show. Iowa was second, Kentucky third, Purdue fourth and Pennsylvania fifth. High individual honors went to a member of the Kansas team, a Jersey scholarship to one of his team mates, and a Holstein scholarship to a member of the Minnesota team. Nebraska captured the Guernsey trophy and the Ayrshire trophy went to Maryland.

Fifteen states from Delaware to Nebraska and from Michigan to Texas, competed in the junior contest with teams selected through local county and state contests. The lads from Missouri were the winners, second place going to Illinois and third to Texas. In the dairy products judging contest for college students, the Ohio team won first, Maryland second, Iowa third, South Dakota fourth and Purdue fifth.

Michigan dairy cattle were represented by entries from one Guernsey and two Holstein herds. The prize lists testify as to their merits. The state Holstein breeders maintained an attractive booth at which the coming breed sale was thoroughly advertised. A team of lads from Michigan was in the junior judging contest and Michigan producers were represented in the show of dairy products. The work of the cow-testing association in Newaygo county was featured in the government exhibit. Sons of Michigan were prominent in the activities of the week. Among these were D. D. Aitkin, president of the Holstein-Friesian Association, and Dudley Waters, of Grand Rapids, who has recently returned from a visit to the devastated regions of France and who is chairman of the committee of Holstein breeders which is endeavoring to collect one thousand bulls to be sent as a gift to France.

WORLD EVENTS IN PICTURES



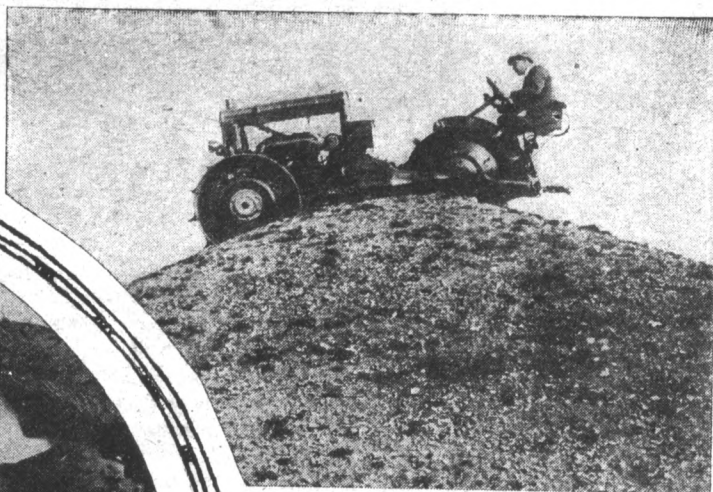
American inventor who perfects device for guiding vessels by use of a submerged electrically-charged cable, at his instruments.



When Man 'O War won the recent match race at Windsor, Miss Ross, daughter of the owner of Sir Barton, had her fondest hopes shattered.



Mrs. Dowling, of Dayton, Ohio is the first woman to vote in the 1920 presidential election, which action was permitted under the absentee voters' law.



English engineers are giving tractors unusually severe tests, particularly as to working on sharp grades.



During recent fighting in Balbriggan, Ireland, practically the whole of the famous seaside town was reduced to ruins and many people were rendered homeless.



Arthur Thibaudeau started in 1912 to walk around the world for \$100,000. He has covered 55,164 miles and has 25,000 miles to go before 1925.

THE VALLEY OF THE GIANTS

A ROMANCE OF THE REDWOODS

By Peter B. Kyne



"I suppose I'll have to," he murmured sadly. "I dare say you're right, though one should never admit defeat until he's counted out. I suppose," he continued bitterly, "your uncle is in high feather this morning."

"I don't know, Bryce. He left in his motor for San Francisco about one o'clock this morning."

For an instant Bryce Cardigan stared at her; then a slow, mocking little smile crept around the corners of his mouth, and his eyes lighted with mirth.

"Glorious news, my dear Shirley, perfectly glorious! So the old fox has gone to San Francisco, eh? Left in a hurry and via the overland route! Couldn't wait for the regular passenger-steamer tomorrow, eh? Great jumping Jehosaphat! He must have had important business to attend to." And Bryce commenced to chuckle. "Oh, the old pirate! What a horrible right swing he is running into! And you want me to acknowledge defeat! My dear girl, in the language of the classic, there is nothing doing. I shall put in my crossing Sunday morning, and if you don't believe it, drop around and see me in action."

"You musn't try," protested Shirley. "Rondeau is there with his crew—and he has orders to stop you. Besides, you can't expect help from the police. Uncle Seth has made a deal with the mayor," Shirley pleaded frantically.

"That for the police and that venal Mayor Poundstone!" Bryce retorted, with another snap of his fingers. "I'll rid the city of them at the fall election."

"I came prepared to suggest a compromise, Bryce," she declared, but he interrupted her with a wave of his hand.

"You can't effect a compromise. You have been telling me I shall never build the N. C. O. because you will not permit me to. You're powerless, I tell you. I shall build it."

"You shan't!" she fired back at him, and a spot of anger glowed in each cheek. "You're the most stubborn and belligerent man I have ever known. Sometimes I almost hate you."

"Come around at ten tomorrow morning and watch me put in the crossing—watch me give Rondeau and his gang the run." He reached over suddenly, lifted her hand, and kissed it. "How I love you, dear little antagonist!" he murmured.

"If you loved me, you wouldn't oppose me," she protested softly. "I tell you again, Bryce, you make it very hard for me to be friendly with you."

"I don't want to be friendly with you. You're driving me crazy, Shirley. Please run along home, or wherever

you're bound. I've tried to understand your peculiar code, but you're too deep for me; so let me go my way to the devil. George Sea Otter is outside asleep in the tonneau of the car. Tell him to drive you wherever you're going. I suppose you're afoot today, for I noticed the mayor riding to his office in your sedan this morning."

She tried to look outraged, but for the life of her she could not take offense at his bluntness; neither did she resent a look which she detected in his eyes, even though it told her he was laughing at her.

"Oh, very well," she replied with what dignity she could muster. "Have it your own way. I've tried to warn you. Thank you for the offer of the car. I shall be glad to use it. Uncle Seth sold my car to Mayor Poundstone last night. Mrs. P. admired it so!"

"Ah! Then it was that rascally Poundstone who told your uncle about the temporary franchise, thus arousing his suspicions to such an extent that when he heard his locomotive rumbling into town, he smelled a rat and hurried down to the crossing?"

"Possibly. The Poundstones dined at our house last night."

"Pretty hard on you, I should say. But then I suppose you have to play the game with Uncle Seth. Well, good morning, Shirley. Sorry to hurry you away, but you must remember we're on a strictly business basis—yet; and you mustn't waste my time."

"You're horrid, Bryce Cardigan."

"You're adorable. Good morning."

"You'll be sorry for this," she warned him. "Good morning." She passed out into the general office, visited with Moira about five minutes, and drove away in the Napier. Bryce watched her through the window. She knew he was watching her, but nevertheless she could not forbear turning round to verify her suspicions. When she did, he waved his sound arm at her, and she flushed with vexation.

"God bless her!" he murmured. "She's been my ally all along, and I never suspected it! I wonder what her game can be."

He sat musing for a long time. "Yes," he concluded presently, "old Poundstone has double-crossed us—and Pennington made it worth his while. And the Colonel sold the mayor his niece's automobile. It's worth twenty-five hundred dollars, at least, and since old Poundstone's finances will

not permit such an extravagance, I'm wondering how Pennington expects him to pay for it. I smell a rat as big as a kangaroo. In this case two and two don't make four. They make six! Guess I'll build a fire under old Poundstone."

He took down the telephone-receiver and called up the mayor. "Bryce Cardigan speaking, Mr. Poundstone," he greeted the chief executive of Sequoia.

"Oh, hello, Bryce, my boy," Poundstone boomed affably. "How's tricks?" "So-so! I hear you've bought that sedan from Colonel Pennington's niece. Wish I'd known it was for sale. I'd have outbid you. Want to make a profit on your bargain?"

"No, not this morning, Bryce. I think we'll keep it. Mrs. P. has been wanting a closed car for a long time, and when the Colonel offered me this one at a bargain, I snapped it up. Couldn't afford a new one, you know, but then, this one's just as good as new."

"And you don't care to get rid of it at a profit?" Bryce repeated.

"No, sirree!"

"Oh, you're mistaken, Mr. Mayor. I think you do. I would suggest that you take that car back to Pennington's garage and leave it there. That would be the most profitable thing you could do."

"Wha—what—what in blue blazes are you driving at?" the mayor sputtered. "I wouldn't care to discuss it over the telephone. I take it, however, that a hint to the wise is sufficient; and I warn you, mayor, that if you keep that car it will bring you bad luck. Today is Friday, and Friday is an unlucky day. I'd get rid of that sedan before noon if I were you."

There was a long, fateful silence. Then in a singularly small, quavering voice: "You think it best, Cardigan?" "I do. Return it to No. 38 Redwood Boulevard, and no questions will be asked. Good-bye!"

When Shirley reached home at noon, she found her car parked in front of the porte cochere; and a brief note, left with the butler, informed her that after thinking the matter over, Mrs. Poundstone had decided the Poundstone family could not afford such an extravagance, and accordingly the car was returned with many thanks for the opportunity to purchase it at such a ridiculously low figure. Shirley smiled and put the car up in the garage. When she returned to the house her maid Thelma informed her that Mr. Bryce

Cardigan had been calling her on the telephone. So she called Bryce up at once.

"Has Poundstone returned your car?" he queried.

"Why, yes. What makes you ask?" "Oh, I had a suspicion he might. You see, I called him up and suggested it; somehow his honor is peculiarly susceptible to suggestions from me, and—"

"Bryce Cardigan," she declared, "you are a sly rascal—that's what you are. I shan't tell you another thing."

"I hope you had a stenographer at the dictograph when the mayor and your uncle cooked up their little deal," he continued. "That was thoughtful of you, Shirley. It was a bully club to have up your sleeve at the final showdown, for with it you can make Unkie-dunk behave himself and force that compromise you spoke of. Seriously, however, I don't want you to use it, Shirley. We must avoid a scandal by all means; and praise be, I don't need your club to beat your uncle's brains out. I'm taking his club away from him to use for that purpose."

"Really, I believe you're happy today."

"Happy? I should tell a man! If the streets of Sequoia were paved with eggs, I could walk them all day without making an omelette."

"It must be nice to feel so happy, after so many months of the blues."

"Indeed, it is, Shirley. You see until very recently I was very much worried as to your attitude toward me. I could not believe you'd so far forget yourself as to love me in spite of everything—so I never took the trouble to ask you. And now I don't have to ask you. I know! And I'll be around to see you after I get that crossing in!"

"You're perfectly horrid," she blazed, and hung up without the formality of saying good-bye.

CHAPTER XXXIV.

SHORTLY after Shirley's departure from his office, Bryce had a visit from Buck Ogilvy. The latter wore a neatly pressed suit of Shepherd plaid with a white carnation in his lapel, and he was, apparently, the most light-hearted young man in Humboldt county. He struck an attitude and demanded:

"Boss, what do you think of my new suit?"

"You lunatic! Don't you know red blonds should never wear light shades? You're dressed like a negro minstrel."

"Well, I fell as happy as an end-man. And by the way, you're chirked up yourself. Who's been helping you to the elixir of life. When we parted last

AL ACRES—"You Tell the Little Adding Machine, You're a Good One on the Counter."

—By Frank R. Leet



night, you were forty fathoms deep in the slough of despond."

"No less a divinity than Miss Shirley Sumner! She called this morning to explain that last night's fiasco was none of her making, and quite innocently she imparted the information that old Pennington lighted out for San Francisco at one o'clock this morning. Wherefore I laugh. Te-he! Ha-ha!"

"Three long, loud raucous cheers for Uncle. He's gone to rush a restraining order through the United States District Court. Wonder why he didn't wire his attorneys to attend to the matter for him."

"He has the crossing blocked, and inasmuch as the mayor feeds out of Pennington's hand, the Colonel is quite confident that said crossing will remain blocked. As for the restraining order—well, if one wants a thing well done, one should do it oneself."

"All that doesn't explain your cheerful attitude, though."

"Oh, but it does. I've told you about old Duncan McTavish, Moira's father, haven't I?" Ogilvy nodded, and Bryce continued: "When I fired the old scoundrel for boozing, it almost broke his heart; he had to leave Humboldt, where everybody knew him, so he wandered down into Mendocino county and got a job sticking lumber in the drying-yard of the Willits Lumber Company. He's been there two months now, and I am informed by his employer that old Mac hasn't taken a drink in all that time. And what's more, he isn't going to take one again."

"How do you know?"

"Because I make it my business to find out. Mac was the finest woods-boss this county ever knew; hence you do not assume that I would lose the old scoundrel without making a fight for him, do you? Why, Buck, he's been on the Cardigan pay-roll thirty years, and I only fired him in order to reform him. Well, last week I sent one of Mac's old friends down to Willits purposely to call on him and invite him out 'for a time!' but Mac wouldn't drink with him. No, sir, he couldn't be tempted. On the contrary, he told the tempter that I had promised to give him back his job if he remained on the water wagon for one year; he was resolved to win back his job and his self-respect."

"I know what your plan is," Ogilvy interrupted. "You're going to ask Duncan McTavish to waylay Pennington on the road at some point where it runs through the timber, kidnap him, and hold him until we have had time to clear the crossing and cut Pennington's tracks."

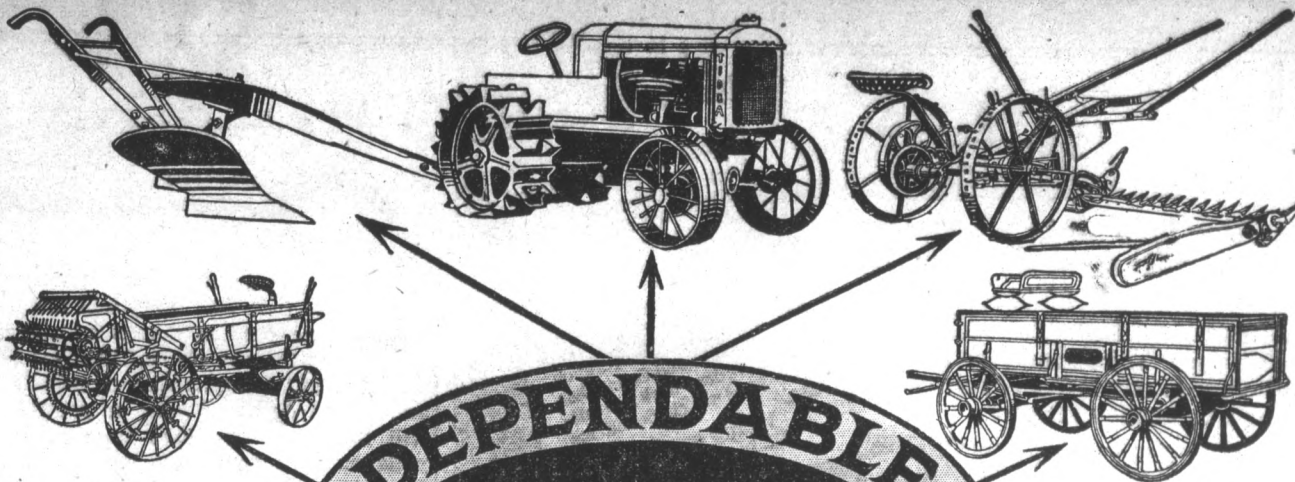
"We will do nothing of the sort," Buck continued seriously. "Listen, now to father's words of wisdom. This railroad-game is an old one to me; I've fought at crossings before now, and whether successful or defeated, I have always learned something in battle. Didn't you hear me tell that girl and her villainous avuncular relative last night that I had another ace up my kimono?"

Bryce nodded.

"That was not brag, old dear. I had the ace, and this morning I played it—wherefore in my heart there is that peace that passeth understanding—particularly since I have just had a telegram informing me that my ace took the odd trick."

He opened a drawer in Bryce's desk and reached for the cigars he knew were there.

"Not at all a bad cigar for ten cents. However—you will recall that from the very instant we decided to cut in that jump-crossing, we commenced to plan against interference by Pennington; in consequence we kept, or tried to keep, our decision a secret. However, there existed at all times the possibility that Pennington might discover our benevolent intentions and block us with his only weapon—a restraining order is—
(Continued on next page).



Save Your Farm Tools

PAINT THEM this Fall before you store them for the Winter. Stop all the rust that eats away the metal and weakens the working parts. Do away with warping and decaying of the wooden parts. It's pennies for repainting—or dollars for repairs and replacement. **Save the surface and you save all.** If you own some idle implement—sell it to some one who has use for it—but paint it first. It will bring you a better price.

Heath & Milligan Dependable Wagon and Implement Paint is a special product for the wood and metal parts of plows, manure spreaders, feed cutters, wagons, reapers, cultivators, etc.

It is a standard Paint used by the largest implement manufacturers in the world in car-load lots. It stands every rigid test. It will do the same for you.

Free Book "How to Paint"

Send for it. It answers every Paint problem right. Our trade-mark (shown above) is in the dealer's store and on the label of each package. If your dealer doesn't carry Dependable Paints, ask him to get them for you. Dependable since 1851.

You can now get Dependable Varnishes as well as Paints

Heath & Milligan Mfg. Co.
1831 Seward Street Chicago, Illinois

"Save the surface and you save all" *Paint & Varnish*

Save \$2.00 on this Sweater

We will send you this heavy, well-knit, handsome khaki sweater for \$2.00 less than you can buy it in the stores. This garment has a heavy shawl collar and two pockets. It is knit with a strong rope stitch of extra weight yarn. You get the benefit of our selling direct, on the closest possible margin. You run no risk as we will gladly refund your money if for any reason you are not entirely satisfied with this sweater.

\$3⁹⁸

Don't Send Any Money

Just send your name and address and size wanted. You may have gray instead of khaki. Sizes 36 to 46. The sweater will be shipped at once, charges paid. You pay the mail man \$3.95 when he delivers the sweater.

Only our enormous volume of production allows us to sell this big, heavy sweater at this price. It would cost at least \$6.00 in any store. It is just the garment for doing the chores on cold winter days, for driving or wear anywhere outdoors. It clings warmly to the body. Remember you don't have to send any money. You don't pay a cent until the sweater is delivered by the postman. If you are not satisfied that you have saved at least \$2.00, return the sweater at our expense, and we will refund your money. Send order at once.

KENSINGTON KNITTERS
181 Michigan Ave. Detroit, Mich.



Send No Money

WITTE
2 H-P. Pulls 2 1/2 tons
Big Value—Big Surplus power. Immediate shipment. Offer includes engine on skids—ready to use. From Pittsburgh add \$5.00. All sizes 2 to 30 H-P. lower now.
WITTE ENGINE WORKS
2199 Oakland Ave. Kansas City, Mo.
2199 Empire Bldg. Pittsburgh, Pa.
\$54⁹⁵
FEB. 1921
Engine Catalog FREE

LEARN AUCTIONEERING
at the World's Original and Greatest School and become independent with no capital invested. Every branch of the business taught. Write today for free catalog.
JONES NAT'L SCHOOL OF AUCTIONEERING
28 N. Sacramento Blvd., Chic. ago, Ill. Carey M. Jones, Pres.
BUY FENCE POSTS direct from forest. Prices delivered your station. M. M. care of Michigan Farmer
Mention The Michigan Farmer When Writing Advertisers

40 Cords a Day

Easily Sawn by One Man with new OTTAWA. Get your own fuel at less than 2c a cord, then supply big demand for fire wood at \$20 a cord up. **Beat the Coal Shortage!**

OTTAWA LOG SAW

Over 4 H-P. 310 strokes a minute. Wheel-mounted. Easy to move, cheap and easy to run. Engine runs other machinery when not sawing. New clutch lever starts and stops saw while engine runs. Cash or Easy Payments. 30 Days' Trial. 10-Year Guarantee. Send for Big FREE BOOK and Special Low Factory Price NOW. Write to
Ottawa Mfg. Co.
1509 Wood St. Ottawa, Kansas.



SAVES MONEY AND BACKACHE

RUNS EASY No Backache Weighs only 45 lbs. Easily Carried
SAWS DOWN TREES
FOLDS LIKE A POCKET KNIFE. ONE MAN with the **FOLDING SAWING MACHINE** saws down trees—saves any kind of timber on any kind of ground. One man can saw more timber with it than two men in any other way, and do it easier. Send for free illustrated catalog No. D44, showing Low Price and latest improvements. In use 30 years. First order gets agency. Folding Sawing Machine Co., 161 West Harrison St., Chicago, Ill.



LANDOLOGY Special Number just out containing 1920 facts of Clover Land in Marinette County, Wisconsin. If for a home or as an investment you are thinking of buying good farm lands where farmers grow rich, send at once for this special number of LANDOLOGY. It is free on request. Address
SKIDMORE-RIEHL LAND COMPANY
381 Skidmore-Riehle Bldg., Marinette, Wisc.

THE VALLEY OF THE GIANTS

A ROMANCE OF THE REDWOODS

By Peter B. Kyne



"I suppose I'll have to," he murmured sadly. "I dare say you're right, though one should never admit defeat until he's counted out. I suppose," he continued bitterly, "your uncle is in high feather this morning."

"I don't know, Bryce. He left in his motor for San Francisco about one o'clock this morning."

For an instant Bryce Cardigan stared at her; then a slow, mocking little smile crept around the corners of his mouth, and his eyes lighted with mirth.

"Glorious news, my dear Shirley, perfectly glorious! So the old fox has gone to San Francisco, eh? Left in a hurry and via the overland route! Couldn't wait for the regular passenger-steamer tomorrow, eh? Great jumping Jehosaphat! He must have had important business to attend to." And Bryce commenced to chuckle. "Oh, the old pirate! What a horrible right swing he is running into! And you want me to acknowledge defeat! My dear girl, in the language of the classic, there is nothing doing. I shall put in my crossing Sunday morning, and if you don't believe it, drop around and see me in action."

"You mustn't try," protested Shirley. "Rondeau is there with his crew—and he has orders to stop you. Besides, you can't expect help from the police. Uncle Seth has made a deal with the mayor," Shirley pleaded frantically.

"That for the police and that venal Mayor Poundstone!" Bryce retorted, with another snap of his fingers. "I'll rid the city of them at the fall election."

"I came prepared to suggest a compromise, Bryce," she declared, but he interrupted her with a wave of his hand.

"You can't effect a compromise. You have been telling me I shall never build the N. C. O. because you will not permit me to. You're powerless, I tell you. I shall build it."

"You shan't!" she fired back at him, and a spot of anger glowed in each cheek. "You're the most stubborn and belligerent man I have ever known. Sometimes I almost hate you."

"Come around at ten tomorrow morning and watch me put in the crossing—watch me give Rondeau and his gang the run." He reached over suddenly, lifted her hand, and kissed it. "How I love you, dear little antagonist!" he murmured.

"If you loved me, you wouldn't oppose me," she protested softly. "I tell you again, Bryce, you make it very hard for me to be friendly with you."

"I don't want to be friendly with you. You're driving me crazy, Shirley. Please run along home, or wherever

you're bound. I've tried to understand your peculiar code, but you're too deep for me; so let me go my way to the devil. George Sea Otter is outside asleep in the tonneau of the car. Tell him to drive you wherever you're going. I suppose you're afoot today, for I noticed the mayor riding to his office in your sedan this morning."

She tried to look outraged, but for the life of her she could not take offense at his bluntness; neither did she resent a look which she detected in his eyes, even though it told her he was laughing at her.

"Oh, very well," she replied with what dignity she could muster. "Have it your own way. I've tried to warn you. Thank you for the offer of the car. I shall be glad to use it. Uncle Seth sold my car to Mayor Poundstone last night. Mrs. P. admired it so!"

"Ah! Then it was that rascally Poundstone who told your uncle about the temporary franchise, thus arousing his suspicions to such an extent that when he heard his locomotive rumbling into town, he smelled a rat and hurried down to the crossing?"

"Possibly. The Poundstones dined at our house last night."

"Pretty hard on you, I should say. But then I suppose you have to play the game with Uncle Seth. Well, good morning, Shirley. Sorry to hurry you away, but you must remember we're on a strictly business basis—yet; and you mustn't waste my time."

"You're horrid, Bryce Cardigan."

"You're adorable. Good morning."

"You'll be sorry for this," she warned him. "Good morning." She passed out into the general office, visited with Moira about five minutes, and drove away in the Napier. Bryce watched her through the window. She knew he was watching her, but nevertheless she could not forbear turning round to verify her suspicions. When she did, he waved his sound arm at her, and she flushed with vexation.

"God bless her!" he murmured. "She's been my ally all along, and I never suspected it! I wonder what her game can be."

He sat musing for a long time. "Yes," he concluded presently, "old Poundstone has double-crossed us—and Pennington made it worth his while. And the Colonel sold the mayor his niece's automobile. It's worth twenty-five hundred dollars, at least, and since old Poundstone's finances will

not permit such an extravagance, I'm wondering how Pennington expects him to pay for it. I smell a rat as big as a kangaroo. In this case two and two don't make four. They make six! Guess I'll build a fire under old Poundstone."

He took down the telephone-receiver and called up the mayor. "Bryce Cardigan speaking, Mr. Poundstone," he greeted the chief executive of Sequoia. "Oh, hello, Bryce, my boy," Poundstone boomed affably. "How's tricks?" "So-so! I hear you've bought that sedan from Colonel Pennington's niece. Wish I'd known it was for sale. I'd have outbid you. Want to make a profit on your bargain?"

"No, not this morning, Bryce. I think we'll keep it. Mrs. P. has been wanting a closed car for a long time, and when the Colonel offered me this one at a bargain, I snapped it up. Couldn't afford a new one, you know, but then, this one's just as good as new."

"And you don't care to get rid of it at a profit?" Bryce repeated.

"No, sirree!"

"Oh, you're mistaken, Mr. Mayor. I think you do. I would suggest that you take that car back to Pennington's garage and leave it there. That would be the most profitable thing you could do." "Wha—what—what in blue blazes are you driving at?" the mayor sputtered.

"I wouldn't care to discuss it over the telephone. I take it, however, that a hint to the wise is sufficient; and I warn you, mayor, that if you keep that car it will bring you bad luck. Today is Friday, and Friday is an unlucky day. I'd get rid of that sedan before noon if I were you."

There was a long, fateful silence. Then in a singularly small, quavering voice: "You think it best, Cardigan?"

"I do. Return it to No. 38 Redwood Boulevard, and no questions will be asked. Good-bye!"

When Shirley reached home at noon, she found her car parked in front of the porte cochere; and a brief note, left with the butler, informed her that after thinking the matter over, Mrs. Poundstone had decided the Poundstone family could not afford such an extravagance, and accordingly the car was returned with many thanks for the opportunity to purchase it at such a ridiculously low figure. Shirley smiled and put the car up in the garage. When she returned to the house her maid Thelma informed her that Mr. Bryce

Cardigan had been calling her on the telephone. So she called Bryce up at once.

"Has Poundstone returned your car?" he queried.

"Why, yes. What makes you ask?"

"Oh, I had a suspicion he might. You see, I called him up and suggested it; somehow his honor is peculiarly susceptible to suggestions from me, and—"

"Bryce Cardigan," she declared, "you are a sly rascal—that's what you are. I shan't tell you another thing."

"I hope you had a stenographer at the dictograph when the mayor and your uncle cooked up their little deal," he continued. "That was thoughtful of you, Shirley. It was a bully club to have up your sleeve at the final showdown, for with it you can make Unkie-dunk behave himself and force that compromise you spoke of. Seriously, however, I don't want you to use it, Shirley. We must avoid a scandal by all means; and praise be, I don't need your club to beat your uncle's brains out. I'm taking his club away from him to use for that purpose."

"Really, I believe you're happy today."

"Happy? I should tell a man! If the streets of Sequoia were paved with eggs, I could walk them all day without making an omelette."

"It must be nice to feel so happy, after so many months of the blues."

"Indeed, it is, Shirley. You see until very recently I was very much worried as to your attitude toward me. I could not believe you'd so far forget yourself as to love me in spite of everything—so I never took the trouble to ask you. And now I don't have to ask you. I know! And I'll be around to see you after I get that crossing in!"

"You're perfectly horrid," she blazed, and hung up without the formality of saying good-bye.

CHAPTER XXXIV.

SHORTLY after Shirley's departure from his office, Bryce had a visit from Buck Ogilvy. The latter wore a neatly pressed suit of Shepherd plaid with a white carnation in his lapel, and he was, apparently, the most light-hearted young man in Humboldt county. He struck an attitude, and demanded:

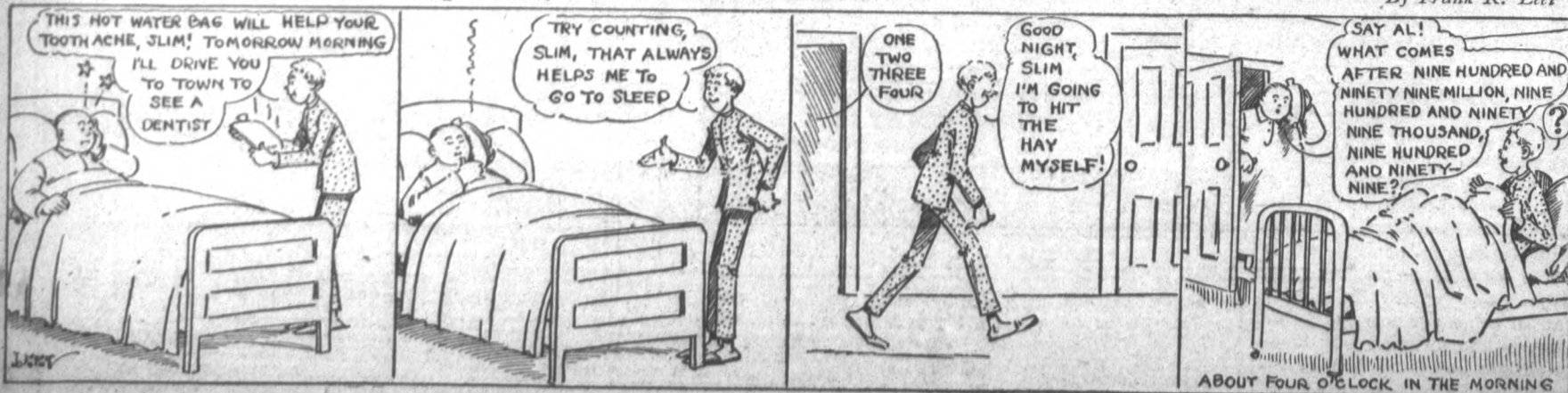
"Boss, what do you think of my new suit?"

"You lunatic! Don't you know red blonds should never wear light shades? You're dressed like a negro minstrel."

"Well, I fell as happy as an end-man. And by the way, you're chirked up yourself. Who's been helping you to the elixir of life. When we parted last

AL ACRES—"You Tell the Little Adding Machine, You're a Good One on the Counter."

—By Frank R. Leet



night, you were forty fathoms deep in the slough of despond."

"No less a divinity than Miss Shirley Sumner! She called this morning to explain that last night's fiasco was none of her making, and quite innocently she imparted the information that old Pennington lighted out for San Francisco at one o'clock this morning. Wherefore I laugh. Te-he! Ha-ha!"

"Three long, loud raucous cheers for Uncle. He's gone to rush a restraining order through the United States District Court. Wonder why he didn't wire his attorneys to attend to the matter for him."

"He has the crossing blocked, and inasmuch as the mayor feeds out of Pennington's hand, the Colonel is quite confident that said crossing will remain blocked. As for the restraining order—well, if one wants a thing well done, one should do it oneself."

"All that doesn't explain your cheerful attitude, though."

"Oh, but it does. I've told you about old Duncan, McTavish, Moira's father, haven't I?" Ogilvy nodded, and Bryce continued: "When I fired the old scoundrel for boozing, it almost broke his heart; he had to leave Humboldt, where everybody knew him, so he wandered down into Mendocino county and got a job sticking lumber in the drying-yard of the Willits Lumber Company. He's been there two months now, and I am informed by his employer that old Mac hasn't taken a drink in all that time. And what's more, he isn't going to take one again."

"How do you know?"

"Because I make it my business to find out. Mac was the finest woods-boss this county ever knew; hence you do not assume that I would lose the old scoundrel without making a fight for him, do you? Why, Buck, he's been on the Cardigan pay-roll thirty years, and I only fired him in order to reform him. Well, last week I sent one of Mac's old friends down to Willits purposely to call on him and invite him out 'for a time!' but Mac wouldn't drink with him. No, sir, he couldn't be tempted. On the contrary, he told the tempter that I had promised to give him back his job if he remained on the water wagon for one year; he was resolved to win back his job and his self-respect."

"I know what your plan is," Ogilvy interrupted. "You're going to ask Duncan McTavish to waylay Pennington on the road at some point where it runs through the timber, kidnap him, and hold him until we have had time to clear the crossing and cut Pennington's tracks."

"We will do nothing of the sort," Buck continued seriously. "Listen, now to father's words of wisdom. This railroad-game is an old one to me; I've fought at crossings before now, and whether successful or defeated, I have always learned something in battle. Didn't you hear me tell that girl and her villainous avuncular relative last night that I had another ace up my kimono?"

Bryce nodded.

"That was not brag, old dear. I had the ace, and this morning I played it—wherefore in my heart there is that peace that passeth understanding—particularly since I have just had a telegram informing me that my ace took the odd trick."

He opened a drawer in Bryce's desk and reached for the cigars he knew were there.

"Not at all a bad cigar for ten cents. However—you will recall that from the very instant we decided to cut in that jump-crossing, we commenced to plan against interference by Pennington; in consequence we kept, or tried to keep, our decision a secret. However, there existed at all times the possibility that Pennington might discover our benevolent intentions and block us with his only weapon—a restraining order is—

(Continued on next page).



Save Your Farm Tools

PAINT THEM this Fall before you store them for the Winter. Stop all the rust that eats away the metal and weakens the working parts. Do away with warping and decaying of the wooden parts. It's pennies for repainting—or dollars for repairs and replacement. **Save the surface and you save all.** If you own some idle implement—sell it to some one who has use for it—but paint it first. It will bring you a better price.

Heath & Milligan Dependable Wagon and Implement Paint is a special product for the wood and metal parts of plows, manure spreaders, feed cutters, wagons, reapers, cultivators, etc.

Heath & Milligan Mfg. Co.
1831 Seward Street
Chicago, Illinois

It is a standard Paint used by the largest implement manufacturers in the world in car-load lots. It stands every rigid test. It will do the same for you.

Free Book "How to Paint"

Send for it. It answers every Paint problem right. Our trade-mark (shown above) is in the dealer's store and on the label of each package. If your dealer doesn't carry Dependable Paints, ask him to get them for you. Dependable since 1851.

You can now get Dependable Varnishes as well as Paints

"Save the surface and you save all" Paint & Varnish

Save \$2.00 on this Sweater

We will send you this heavy, well-knit, handsome khaki sweater for \$2.00 less than you can buy it in the stores. This garment has a heavy shawl collar and two pockets. It is knit with a strong rope stitch of extra weight yarn. You get the benefit of our selling direct, on the closest possible margin. You run no risk as we will gladly refund your money if for any reason you are not entirely satisfied with this sweater.

\$3⁹⁸

Don't Send Any Money
Just send your name and address and size wanted. You may have gray instead of khaki. Sizes 36 to 46. The sweater will be shipped at once, charges paid. You pay the mail man \$3.98 when he delivers the sweater.

Only our enormous volume of production allows us to sell this big, heavy sweater at this price. It would cost at least \$6.00 in any store. It is just the garment for doing the chores on cold winter days, for driving or wear anywhere outdoors. It clings warmly to the body. Remember you don't have to send any money. You don't pay a cent until the sweater is delivered by the postman. If you are not satisfied that you have saved at least \$2.00, return the sweater at our expense, and we will refund your money. Send order at once.

KENSINGTON KNITTERS
181 Michigan Ave. Detroit, Mich.

Send No Money



WITTE
2 H.P. Pulls 2 1/2 Tons
Big Value—Big Surplus power. Immediate shipment. Offer includes engine on skids—ready to use. From Pittsburgh add \$5.00. All sizes 2 to 30 H.P. lower now.
WITTE ENGINE WORKS
2100 Oakland Ave. Kansas City, Mo.
2109 Empire Bldg. Pittsburgh, Pa.
\$54⁹⁵ FOR K.C.
Engine Catalog FREE

LEARN AUCTIONEERING

at the World's Original and Greatest School and become independent with no capital invested. Every branch of the business taught. Write today for free catalog. **JONES NAT'L SCHOOL OF AUCTIONEERING**
28 N. Sacramento Blvd., Chicago, Ill. Carey M. Jones, Pres.

BUY FENCE POSTS direct from forest. Prices delivered your station. M. M. care of Michigan Farmer

Mention The Michigan Farmer When Writing Advertisers

40 Cords a Day

Easily Sawn by One Man with new OTTAWA. Get your own fuel at less than 2c a cord, then supply big demand for fire wood at \$20 a cord up. **Beat the Coal Shortage!**

OTTAWA LOG SAW

Over 4 H.P. 310 strokes a minute. Wheel-mounted. Easy to move, cheap and easy to run. Engine runs other machinery when not sawing. New clutch lever starts and stops saw while engine runs. Cash or Easy Payments. 30 Days' Trial. 10-Year Guarantee. Send for Big FREE BOOK and Special Low Factory Price NOW. Write to **Ottawa Mfg. Co.**
1509 Wood St. Ottawa, Kansas.

SAVES MONEY AND BACKACHE

RUNS EASY No Backache Weighs only 45 lbs. **SAWS DOWN TREES** Easily Carried

FOLDS LIKE A POCKET KNIFE. ONE MAN with the **FOLDING SAWING MACHINE** saws down trees—saws any kind of timber on any kind of ground. One man can saw more timber with it than two men in any other way, and do it easier. Send for free illustrated catalog No. D44, showing Low Price and latest improvements. In use 30 years. First order gets agency. **Folding Sawing Machine Co., 161 West Harrison St., Chicago, Ill.**

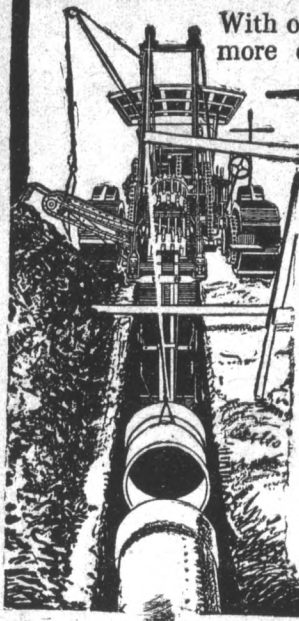
LANDOLOGY

Special Number just out containing 1920 facts of Clover Land in Marinette County, Wisconsin. If for a home or as an investment you are thinking of buying good farm lands where farmers grow rich, send at once for this special number of **LANDOLOGY**. It is free on request. Address **SKIDMORE-RIEHL LAND COMPANY**
381 Skidmore-Riehl Bldg., Marinette, Wisc.

Mason Made \$2500 Net In Five Months

Nice amount of money for five months' work, isn't it? You can do it as well as Mr. Mason and hundreds of others are doing. The demand for traction ditching is enormous. You can make big money with a

"A Perfect Trench at One Cut"
BUCKEYE
Traction Ditcher



With one helper you can dig more ditches each day than can fifteen men by hand. You make a perfect ditch at one cut. Farmers want traction ditching—it's better, can be done quicker and at less cost. When they know you have one, you'll be kept busy; you won't have to look for work, it will come to you. Many Buckeye owners have six to twelve months' work ahead. \$15 to \$20 daily is the net average earnings of hundreds of Buckeye owners. Here is a proposition that will give you a standing and make you a big profit each year.

Send For Free Book

A book of solid facts, tells how others are coining money, how they get the work, how much it costs to do it and all the details of operating.

Our service department is at your call to get you started and keep you going, to tell you the prices to charge and how to make big money with a BUCKEYE. Send now for the book, you can make big money too.

THE BUCKEYE TRACTION DITCHER CO.
368 Crystal Ave., Findlay, O.

READ THIS LETTER
Work has been so plentiful that I have turned away more than I have done. The machine has given entire satisfaction and far exceeded my expectations. I find it very easy to average 130 rods working ten hours. The machine has been in operation for five months and during that time I have done work amounting to \$4000 which netted me \$2500.
VICTOR MASON
Mt. Pleasant, Iowa

Voting Your Religion

Our Weekly Sermon—By N. A. McCune

ON November second you will have a solemn religious duty to perform. It will be a political duty, of course, but it will also be a religious duty. No man or woman who pretends to do the right thing will fail to vote, and no man or woman who is a member of the church and believes in making right doing as easy as possible and wrong doing as hard as possible, will fail to make plans to visit the polls on that day. Put it this way: Suppose you vote for a man or a number of men who are known to be honest men and who have a record for enforcing the law. If they are elected, conditions for moral and upright living will be made better. If moral conditions are good, it will be easier to rear children in the right way, and young people will have fewer temptations. It is a moral obligation to bring up the next generation in the very best way possible. And hence it is a moral obligation to vote for such men as will help to create a clean and wholesome atmosphere. That is true of village politics, county and state politics, and national politics. One's political duties are moral and religious duties. To be too indifferent to vote is a crime against the state and against the moral law. If there could be a law requiring the disfranchisement of those who have not voted in the last two elections, say, it would awaken some citizens to their obligations. The Bible speaks of the "powers that be," as holding office by virtue of the grace of God. It also refers to magistrates as existing for the purpose of punishing evil-doers and helping those who do well. If that is correct, and if such officers hold office by the election of the voters, the voters are guilty of a moral wrong if they do not exercise their suffrage to the best of their light in the election of honest and capable men to public office. "A public office is a public trust."

Now, if prohibition can work out these results in so short a time, there must be something to it. And yet we have pretty good evidence that strenuous efforts are being made to elect congressmen who will enact a law that will nullify the eighteenth amendment. When the American people have spoken by an overwhelming majority, and an amendment has been placed on the federal statute books, it would not seem to be an act of patriotism to attempt to undermine such an act. If prohibition is a righteous law, and that is what the churches everywhere are saying, then it is a righteous act to vote for men who will uphold such a law, and it is a wrong act to vote for men who will weaken it or destroy it.

IT has been said that this is a very difficult election in which to choose one's party. If that is true, there is all the more need of thought, and care in casting one's ballot. What the republic has achieved in the way of righteousness and justice and honor, we want to retain. We can afford to lose none of it. We must press on to still farther conquests. And no nation under heaven has such reasons for gratitude as has our own great land. The atmosphere is becoming more electric with expectancy. Feeling is growing more tense. There will be bitter disappointments on election night. There always are. But when it is all over, and the last remote mountain county has been heard from, we are going to accept the result as final, and go about our business. There will be no upheavals, no revolution. The people will speak, and when they have spoken, there it ends. And as the millions of voters take the blue pencil in their hand, as they mark their ballots, may they do it in the fear of God. The fifty-eight per cent in arrests, after old saying is, "The voice of the people is the voice of God."

FOR one thing, there is the subject of prohibition. Do you believe in prohibition? Perhaps you are one who used to take an occasional nip. Well, suppose you did and suppose you miss it now, what of the actual results in finances, in crime reduction, in human happiness and misery, as coming from prohibition? The average American voter is reasonable. He will usually listen if there are facts to present. Well, we learn for instance, that in New Jersey after only one year of prohibition there is a decrease of seventy-five per cent in alcoholic dementia cases. The chief of police of the city of New York, after old saying is, "The voice of the people is the voice of God."

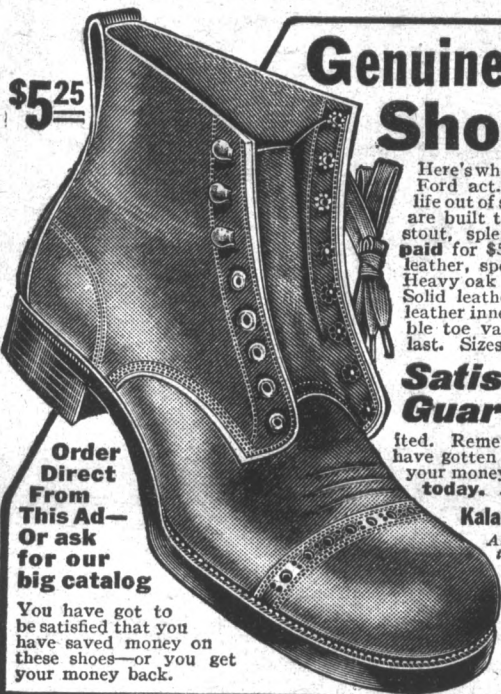
The Valley of the Giants

(Continued from preceding page).
sued by the judge of the United States District Court.

"Now, one of the most delightful things I know about a court is that it is open to all men seeking justice—or injustice disguised as justice. Also, there is a wise old saw to the effect that battles are won by the fellow who gets there first with the most men. The situation from the start was absurdly simple. If Pennington got to the District Court first, we were lost!"

"You mean you got there first?" exclaimed Bryce.
"I did—by the very simple method of preparing to get there first in case anything slipped. Something did slip—last night! However, I was ready; so all I had to do was press the button, and on the long-distance telephone; at for as Omar Khayyam remarked: nine o'clock this morning he appeared

"What shall it avail a man if he buyeth a padlock for his stable after his favorite stallion hath been lifted?" Several days ago, my boy, I wrote a long letter to our attorney in San Francisco explaining every detail of our predicament; the instant I received that temporary franchise from the city council, I mailed a certified copy of it to our attorney also. Then, in anticipation of our discovery by Pennington, I instructed the attorney to prepare the complaint and petition for a restraining order against Seth Pennington et al, and stand by to rush the judge with it the instant he heard from me!
"Well, about the time old Pennington started for San Francisco this morning, I had our attorney out of bed so all I had to do was press the button, and on the long-distance telephone; at for as Omar Khayyam remarked: nine o'clock this morning he appeared



Genuine Leather DAIRY PROOF Shoes for \$5.25

Here's where we do the "Henry Ford act." We've slashed the life out of shoe prices. These shoes are built to stand hardest farm use and abuse. A stout, splendidly made farm shoe sent post-paid for \$5.25. Made of extra strong dark brown leather, specially treated to resist barnyard acids. Heavy oak sole—brass nailed and double stitched. Solid leather heel, brass clinched fastened. Grain leather inner sole. Solid leather counter. Full double toe vamp. Full gusset. Extra wide Munson last. Sizes 6 to 10½.

Satisfaction Absolutely Guaranteed

Act quick if you want a pair. This offer is limited. Remember—you must be satisfied that you have gotten a wonderful bargain—or we will refund your money. Send Order—with size needed—today. Ask for Catalog No. 113X140.

Kalamazoo Shoe Co., Mfrs., Kalamazoo, Mich.

Also get our offer on Paints, Roofing, Cream Separators, Sewing Machines, Congoleum Floor Covering, Chemical Indoor Toilets, Carpet Sweepers, Oil Heaters, Washing Machines, Phonographs, Stoves, Ranges, Furnaces and Kitchen Cabinets.

"A Kalamazoo Direct to You"

Natco Hog Houses Help Save the Pigs

Build the farrowing houses of Natco Hollow Tile. The three hollow spaces filled with air in a Natco wall provide perfect insulation through which heat, cold or moisture will not pass. Thus Natco Hog Houses are warm in winter and cool in summer. Moisture does not condense on these walls as on other forms of masonry. And the smooth glazed surface of Natco walls is easy to disinfect—it affords no hiding-place for germs or vermin.

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

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

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

National Fire Proofing Company, 1063 Fulton Bldg., Pittsburgh, Pa.



Section showing foundation

Our building plans may help you free while they last



Natco Hog House, L. R. Sabine, Gaitersburg, Md., owner

in the United States District Court; at nine-fifteen the judge signed a restraining order forbidding our enemies to interfere with us in the exercise of a right legally granted us by the city of Sequoia, and at nine-thirty a deputy United States marshal started in an automobile for Sequoia, via the overland route. He will arrive late tomorrow night, and on Sunday we will get that locomotive out of our way and install our crossing."

"And Pennington—"

"Ah, the poor Pennington! Mon pauvre Seth!" Buck sighed comically. "He will be just twenty-four hours late."

"You old he-fox!" Bryce murmured. "You wicked, wicked man!"

Buck Ogilvy lifted his lapel and sniffed luxuriously at his white carnation, the while a thin little smile played around the corners of his humorous mouth. "Ah," he murmured presently, "life's pretty sweet, isn't it!"

(Continued next week).

MILK PRODUCERS HOLD ANNUAL MEETING.

THE annual meeting of the Michigan Milk Producers' Association was held at the Michigan Agricultural College on Tuesday, October 19. There was a very good attendance of dairymen at the opening session. President N. P. Hull, in his address on "Present Problems and How to Meet Them," congratulated the membership on the attendance under ideal weather conditions for pushing the fall work, and reminded them that while the attendance was not as large as at some of the previous meetings, this was a testimonial to the work of the organization through which the members had accomplished as much or more than the dairymen of any other state, without a strike or other disastrous measures. He reviewed the present situation, particularly as regards the condensaries, summing it up in the statement that the condensaries use less than five per cent of the total milk production, and that if farmers used dairy products as liberally as they should on their own farms, this percentage of production would be immediately absorbed, and the surplus problem would be solved. "Women's Part in a Better Milk Product," was the subject of an interesting and instructive address by Mrs. Dora Stockman, member of the State Board of Agriculture.

Prof. A. C. Anderson addressed the dairymen on "Some Things About Milk Distribution that the Producer Should Know."

Judge M. D. Munn, president of the National Dairy Council, gave a most interesting address on "The Cause and Remedy of the Present Depression in the Dairy Industry." He emphasized the value of milk as a food and gave some interesting facts which will be made the subject of future comment. The retiring officers and directors were reelected. The following resolutions were adopted:

Resolutions.

Your resolutions committee wishes to remind the membership of the Michigan Milk Producers' Association that the dairy industry of the United States is passing through an unusual period. Commercial and financial forces are attempting to readjust themselves, and at this time it is impossible to foretell the effect which these agencies will have upon the dairy industry. We feel certain that a period of quietude, if not of absolute depression, is before us. Under these circumstances it behooves the dairymen of Michigan to adopt a conservative policy. There is no more occasion for alarm in the dairy industry than in other branches of business, but the present conditions call for sane, careful, and sensible judgments. It especially behooves the membership of the Michigan Milk Producers' Association to act in unison, cheerfully and willingly, and in every part of the production field to cooperate promptly and quietly with the general policies which

(Continued on page 547).

Get Our Prices on STAR Carriers

Now Is the Time To Get Yours

Don't wait for cold weather to make you wish you had one. Think of the time and hard, disagreeable work that a new STAR litter carrier can save you in your barn this winter. A good litter carrier is a good investment in any barn, but in STAR Carriers you get big features which no other carrier made can offer. For example, STAR Carriers give you the advantages of having litter carrier tub and feed carrier body interchangeable on the same truck. Two carriers in one—at a saving in cost and double value in service.

Quick lowering, easy raising, automatic tripping and the dependable long-lasting construction are some of the other features you will like in STAR Carriers. Here are carriers built to last and to be "on the job," ready for service every day, year after year.

No matter what other equipment you may now have in your barn you can get STAR Carriers and track to fit your needs. No barn arrangement is so complicated that STAR Carriers cannot serve the owner successfully.

STAR Carriers are built by barn equipment specialists. Built in a variety of types—for steel track, and combination steel track inside and rod track outside. You can also get STAR Swinging



Booms—outside pillars, STAR feed trucks, Stalls, Stanchions, Water Bowls, Door Hangers, Hay Tools and many other STAR Articles for your barn in the STAR line.

Write for the STAR Line Book

This is our barn book and catalog. Every farmer should have a copy. Find out how little it costs now to equip your barn with STAR goods. If you are thinking of building a new barn or remodeling your present one, let us suggest STAR plans. You will find many good barn plan suggestions in our catalog. Let us send you a copy free.

But don't wait until you build or remodel before using STAR Carriers. Get your Carriers now. Send coupon today for special catalog on carriers.

Hunt, Helm, Ferris & Co. Complete Barn Outfitters
Harvard, Ill. Albany, N. Y.
Designers and Manufacturers of

STAR Equipment



MOLINE

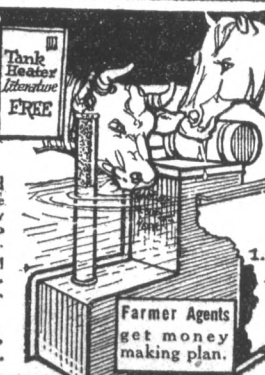
has no rival in economy and long life. Burns kerosene, cheapest fuel, 36 hours one filling; handy valve controls heat for small tanks or mild weather; flame can't blow out; no ashes, smoke, sparks; heavy rust proof boiler iron insures steady heat; no rivets under water; dependable; lasts years; fits any tank; pays for itself quickly.



Moline Hog Waterers
Guaranteed heavy galvanized steel; non-freezing; sanitary; cool in summer; long burning lamp, three styles. Write for prices.

Farmers who owned ordinary tank heaters are the men who buy and stick by the "MOLINE." Costs no more than the inefficient kind. Get literature, Price Today! Immediate shipment. Direct from factory. Write.

Moline Tank Heater Co.
126 Oak Street, MOLINE, ILL.



BOWSHER'S HEAVY-DUTY GRINDERS
FOREMOST AMONG BETTER GRINDERS
Crush and grind all the grains that grow; fine for hogs or coarser for cattle feeding. Corn in husk, Head Kaffir, and all small grains.
Strength, Durability and Service radiate from every line of these Masterful Grinders. Simple but effective in adjustment.
LIGHT RUNNING—LONG LIFE—EXTRA CAPACITY
CONE-SHAPED BURRS
10 sizes—2 to 25 H. P. or more. Also Sweep Mills. It pays well to investigate. Catalog FREE.
The D.N.P. Bowsher Co., South Bend, Ind.

Barn Paint \$1.35 Per Gallon
Get factory prices on all paints. We guarantee quality. We pay the freight.
Franklin Color Works, Dept. M, Franklin, Ind.

Farms and Farm Lands For Sale

**\$12,000 Income Last Year
155 Acres Equipped \$15,000**

Complete dairy herd, which make last year's big income, with all feed on farm included if taken now; 35 Holstein Cows, thorough bred bull, 4 horses, hogs, poultry, complete valuable machinery, wagons, tools, etc.; in city market zone; 155 acres rich loam fields, creek-watered pasture, wood, timber, 100 sugar maples; 2-story 14-room house, 100-ft. concrete basement barn, many other buildings, all excellent; owner retiring with competence, and \$15,000 takes all, part cash, balance easy terms. Details this and smaller equipped farm for \$3,500 page 27 Strout's Big New Illustrated Catalog Farm Bargains 33 States. Copy free. STROUT FARM AGENCY, 814 BC Ford Bldg., Detroit, Mich.

\$1200 Down Buys

A good 80 acre farm with good bldgs. 60 acres cleared. Balance pasture and small timber such as ash, oak and elm. 1 1/2 acre in lake. Soil is partly red gravel loam. Balance black soil. Dredge ditch across farm. House is 5 rooms down, basement and furnace. Barn 36x56 with part basement, other bldgs. 80 rods to school. Can be bought for \$5000. Call
GEORGE GREEN, CITY AND COUNTRY REALTY CO., 24 McGraw Bldg., Detroit, Michigan
Cadillac 99.

640 ACRES, two miles from Saginaw (seven-thousand population). All clay subsoil, with mixed clay and black loam surface; good buildings and good roads; excellent shipping facilities and best markets for stock and produce, one-third annually. Other realty city property or farming land in part or whole; exchange payments; two hundred dollars per acre; on cash basis \$185 per acre; possession on March 1, 1921 or sooner if required, also on sale 40-60-80-120-160 acres enquiry solicited. D. H. Rennie, Real Estate and Business Exchange, 3234 Genesee Ave., Saginaw, Mich. Bell Phone 3631, Valley 630-B.

120 Acres For \$9,000 SUGAR BEET LAND

Black ash and elm land, 5 acres timber. Balance plow land also apples, pears, cherries, and pears. 9 room good house, 2 fair barns and other bldgs. All other land around here is selling for \$100 to \$150 an acre. \$8000 cash necessary to buy this or might sell 40 acres with buildings for \$4200 with \$2500 down. Call GEORGE GREEN, City and Country Realty Co., 24 McGraw Bldg., Detroit Michigan, Cadillac 99.

Wonderful Opportunity TO PURCHASE

Rich Productive Farms

For A Home -- or As a Paying Investment
IF INTERESTED WRITE FOR CATALOGUE
ROGERS BROS. SEED CO.
ALPENA, MICH.

FOR SALE

Ex. Gov. Luce Farm, 208 acres, Gilead, Mich. 20 acres timber, \$14000 house, withstood cyclone which swept away barns, fences, etc. Worth before storm \$150 per acre. Owner paralyzed, unable to rebuild. Will sell for \$22000. Address Ward, Burch & Burch, 15 West Chicago St., Coldwater, Mich.

Administrator Sale 160 acres a beautiful place, particulars and photographs on request, owner and wife both dead, sacrifice sale.
C. M. SYNDER, Lapeer, Mich.

Rich Michigan FARMS. Low prices. Easy terms. Best locations, improvements. Your best Farm-Man WILL B. ARNOLD, 203 N Cedar St if you will come and see farms, Lansing, Michigan.

GENUINE ASPIRIN

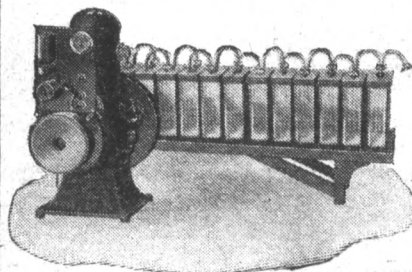


Name "Bayer" identifies genuine Aspirin introduced to physicians in 1900. Insist on unbroken packages of

BAYER-TABLETS of ASPIRIN

Aspirin is the trade mark of Bayer Manufacture of Monoaceticacidester of Salicylicacid

REGALITE



Farm Lighting Plant

A 3/4 k. w. generator directly connected with a 2 H. P. air cooled motor. Capacity 45 20-watt lamps. Willard storage battery. Dealers wanted. Write for particulars.

REGAL GASOLINE ENGINE CO.
Division Street, Coldwater, Mich.

Cheaper Heat

For Your Home and Other Buildings

Coal gets dearer and scarcer all the time. Why not do as others and burn cheap, plentiful, kerosene in the popular guaranteed, odorless

VICTORY OIL STOVE

Saves half on fuel bills. Gives instantaneous heat. No waiting. No dirt, no work, no ashes, no fire risk. Patented wickless metal burner lights with a match. Gas goes up chimney. Absolutely SAFE, reliable, dependable. FREE! Write for new book "The Sensible Heat for You." Gives all facts, low prices and economies of the Victory Oil Stove. Write at once—today. Mention dealer's name.



Victory Oil Stove Co.
140 W. Austin Av., Chicago, Ill.

AGENTS Send for our agents' and dealers' proposition. Some good territory still open.

10 Cents

WORTH OF COIN FOR ORDINARY or Coal Oil will keep this lamp in operation for 30 HOURS and will produce

300 CANDLE POWER

of the purest, whitest and best light known to science. Nothing to wear out or get out of order. Simple. Safe. Absolute satisfaction guaranteed. Send for catalog showing lamps for every purpose; also special introductory offer and agency proposition. Write today.

KNIGHT LIGHT & SODA FOUNTAIN COMPANY, Dept. 169 Chicago

BOCK ON DOG DISEASES And How to Feed

Mailed free to any address by the Author

H. CLAY GLOVER CO., Inc.,
118 West 31st Street, New York

America's Pioneer Dog Medicines

Woman's Interests

Cooperative Play

An Interesting Experiment Carried on Under State Supervision

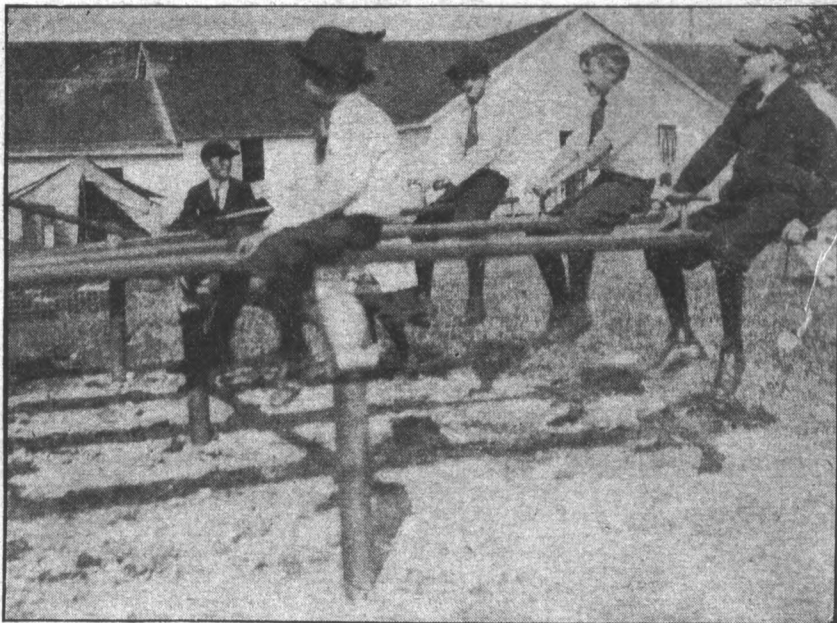
WHAT is the Michigan Community Council Commission? What is it doing? How does it work? What has it done to justify the state in making the appropriation to carry on its work?

The commission is composed of twenty-six members, half of whom the law says shall be women. It was created by an act of the legislature of 1919 to keep alive the community spirit born during the war, and which leaders in war work thought could be more useful in days of peace than in days of stress. It is nonfactional, non-partisan, non-sectarian. Its one big aim is to get all the people in the whole community, whether rich or poor, employer or employe, American or foreign born, black or white, to work together to further the interests of their own particular local community. It does not mean one more organization or club, but a centralization of all existing organizations. If community enterprises already exist, it tries to work with them. It is only where there is

no club or other sort of organization that the commission tries to start some form of gathering. And when you speak of Kent county you don't know where to begin, whether at Lowell, where the work started with a group of mothers who asked the commission to send its play director, Miss Anna Vaughn, to teach them how to direct playgrounds, or to talk about the traveling libraries and help given mothers' clubs. The work at Lowell is typical, though, as the average community wants help with some form of play. And play is really the best way to get folks together. As Miss Vaughn expresses it:

commission, give the sort of help the community asks. Fifty-seven counties have county boards, and in fifteen of these paid secretaries carry on the work. The board of supervisors is empowered to appropriate the funds pay for clerical help and necessary expenses.

Kent county, where the work is highly organized and carried on by a secretary, Miss Genevieve Forsberg, shows graphically just what is attempted and how the work is carried on.



The Community Council Playground Attracted Much Attention at the West Michigan State Fair.

The state commission works through county boards which were provided for by the same act, and may consist of six, eight or ten members, one-half of this board also being women. These county boards being on the field know the needs of their own localities. They in turn appoint councils in neighborhoods desiring to work with the commission, and, acting with the state

and be sure to find them, and showed visiting small town folks and rural school boards what they might do in the way of equipping a playground at small expense. In Cedar Springs the Home-School Association have already planned to raise \$125 for playground equipment. The lack of any provision for girls which is the situation almost everywhere in the county, has appealed to Miss Forsberg. Boys are taken care of by the Boy Scouts and other boys'

"If you can get folks to play together it is an easy to step to get them to work together. You aren't half so apt to quarrel with the folks you've just played with, or to question their motives and ask their politics before you join in any community enterprise and pull with them."

So at Lowell, the women felt the need of play. It is a typical small town, nothing for the young folks to do, which mothers are beginning to see spells mischief. So a group of mothers asked for training in playground work. Miss Vaughn went out and held classes, and as a result a playground was conducted during the summer, a different mother taking charge for one afternoon in the week. Fall days and school brought an end to this, but the mothers—and children—were so well pleased that a boys' club grew out of it, and the city fathers have allowed them the use of a room in the city hall.

At Grandville the folks wanted to



swim. So they got together, dammed the stream that flows through the community, built a couple of dressing rooms, and had a swimming pool that accommodated two hundred bathers. The Grandville folks were so proud of their community enterprise that they have decided to keep together all winter. They are to have a community club, with a dinner at twelve o'clock and a program in the afternoon once every month.

At Rockford there is a brotherhood which has a dinner every two weeks. At Comstock Park, the community clubs holds monthly meetings. In Kent City the community activity has resulted in a rest-room and a library. In Wayland Miss Vaughn is holding a class to train local workers in conducting neighborhood play, and so the work goes on.

One of the features which pleased West Michigan State Fair visitors was the booth where information was given and baskets, grips and wraps checked free. Back of the booth a playground was in full swing. This fulfilled two objects, it gave a place for mothers to leave children,

and showed visiting small town folks and rural school boards what they might do in the way of equipping a playground at small expense. In Cedar Springs the Home-School Association have already planned to raise \$125 for playground equipment.

The lack of any provision for girls which is the situation almost everywhere in the county, has appealed to Miss Forsberg. Boys are taken care of by the Boy Scouts and other boys'



Morning Flag Salute at Girl Scouts' Camp.



Naomi and Ruth in Impromptu Community Pageant.

clubs, but very little has been done in the way of club leadership for girls, especially in rural communities. To counteract this, a ten-days' course in girls' club leadership was held at Grand Haven in cooperation with the Camp Fire Girls. Here a number of young women were taught just how to organize girls' clubs and lead them in work and play. As a result of this training camp a number of rural girls in Kent county will have some place to go this winter when big brother goes to scout meeting.

It is not all play with the commission, however. There is an educational program as well. Communities are advised on starting traveling libraries, they are given lists of books which can be obtained free from the University of Michigan, told where to secure literature for debates, and helped to secure films for illustrated lectures and movies. Mothers' clubs are given help and furnished lists of books and outlines of study. Several are now studying "Play and Education."

Americanization, study of living conditions with a view to improving the community, lyceums, forums and debating societies, community plays, pageants, holiday presentations and community music, information headquarters, these are only a few of the ways the commission plans to help through its local councils.

All this work it aims to do through existing organizations. The object is not to start something new, but to strengthen what already exists. If the neighborhood has a grange, a woman's club, a farmers' club—any sort of community enterprise, the commission will not start another organization. Cooperation is the thing aimed at, and cooperation between all the folks in the community.

The commission headquarters are in Grand Rapids, under the direction of A. N. Farmer. Localities desiring help may write Mr. Farmer, stating their needs, and information, or state workers, will be sent.

WOMEN WHO MAY VOTE.

In order to vote in Michigan a woman must be:

1. Twenty-one years of age on election day.
2. A resident of Michigan for six months before election day.
3. A resident of the township, village or ward for twenty days preceding election.
4. A citizen of the United States, the wife of a citizen of the United States or the wife of an inhabitant of foreign birth, who, having resided in the state two years and six months prior to November 8, 1894, declared his intention to become a citizen of the United States two years and six months prior to that date.

What Women Are American Citizens.

A woman born in the United States is an American citizen whether or not her parents are American citizens, but a United States woman citizen who marries an alien loses her citizenship by the marriage and cannot vote. She can be naturalized by court proceedings. The naturalization of her husband alone will not restore her citizenship, but the death of her alien husband or a divorce from him followed by a continued residence in the United States will restore her citizenship. If she was born outside of the United States of alien parents, but her parents became citizens of the United States before she reached the age of twenty-one years, then she is a citizen.

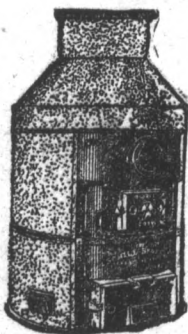
Save all small pieces of toilet soap and put in double boiler with a small quantity of boiling water. When the soap melts stir in all the almond meal the mixture will take up, and pour into molds. This gives a good toilet soap from left-overs.—M. A. P.



We never had comfort like this when we were young

Old folks may be far more comfortable, and the rest of the family will enjoy living, while all will be more healthful, when the balmy, purified heat circulates perfectly to every room in the house, giving uniform temperature in every room, with the

COZY The Perfect
PIPELESS FURNACE



All this can be had with low cost—less than you pay for two or three stoves, and the furnace can be put into your home in one day without cutting your walls or spoiling your decorations. Your cellar will remain cool for the storage of fruits and vegetables.

See this furnace at the dealer's, or write to us for our guarantee and the booklet that tells "The Last Word in Economical Heating." Sent free on request.

The Schill Bros. Company,
Crestline, Ohio
Morley Bros., Saginaw, Mich., Distributors

Nature Responds
Nature is on your side every time you eat

Grape-Nuts

For this sturdy blend of wheat and malted barley supplies body and brain with just the elements of nutrition that Nature demands for health and vigor.

Grape-Nuts is a Sugar Saver
"There's a Reason"



"NOTHING SURE THAN DEATH AND TAXES"
Municipal Bonds

Payable from taxes on rich agricultural Counties are an investment that will return both your principal and interest

Lenawee County, Mich.
6% Road Bonds
To Yield 6 Per Cent.

PRUDEN & COMPANY
Bankers

Nasby Bldg. TOLEDO, OHIO.

WANTED Scotch Collie and Alredale Puppies. Write Dr. W. AUSTIN EWALT, Mt. Clemens, Michigan if you have any thoroughbreds for sale. Give description, breeding and price in first letter.

BUY YOUR COFFEE WHOLESALE IN 5 LB. LOTS
from JEVNE'S and SAVE 10c per pound
We Pay Parcel Post. We sell only High Grade Coffee and Tea
Send for our Money Saving Price List, or better still
Send \$1.75 for 5 lbs. JEVNE'S EXCELLO COFFEE
or \$1.90 for 5 lbs. JEVNE'S SPECIAL COFFEE
or \$2.00 for 5 lbs. JEVNE'S PERFECTION COFFEE
JEVNE COFFEE CO., (Est. 1881) Coffee Specialists
DEPT. 7, 2855-57 W. MADISON ST., CHICAGO, ILL.

FURS

TRAPPERS AND SHIPPERS
We are buyers for New York Manufacturers. Are in position to pay you as much or more for your furs. We use 4 standard grade for Prime Goods. 15 years honorable dealings. We buy tame Rabbit Skins. Tags and etc. Free.
Reference First Nat'l Bank, Marquette, Mich.
BERGMAN - DAVIS CO. FURS
130 Spring St. Marquette, Mich.

Mention The Michigan Farmer When Writing Advertiser.

LET US TAN YOUR HIDE.

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

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

Then we have recently got out another we call our Fashion book, wholly devoted to fashion plates of muffs, neckwear and other fine fur garments, with prices; also fur garments remodeled and repaired.

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

The Crosby Frisian Fur Company,

571 Lyell Ave., Rochester, N. Y.



Raise Belgian Hares

Big profits easily and quickly made, raising Belgian Hares in back yards, sheds, cellars, attics, etc. Valuable illustrated book free shows you how.

Genesee Valley Products Association, Inc.,

Gladstone Street, Rochester, N. Y., Dept. 11

POULTRY

HIGH QUALITY S. C. W. Leghorns

500 5 months old pullets at \$2.10
400 4 1/2 months old pullets at 1.85
150 choice breeding hens at 1.50
150 choice breeding cockerels at 1.50

This stock is all produced on our own farm from heavy winter laying stock. Quality guaranteed. 40 acres devoted to breeding Leghorns of quality at "Ford" prices.

Macatawa White Leghorn Co.

Holland, Mich.

PULLETS

If you want good laying Hens for this winter, we can help you into a fine stock, a surplus taken from the breeding Colonies of the past season.

PEARLING PULLETS
800 S. C. White Leghorns
300 S. C. Brown Leghorns
200 S. C. Anconas
THREE MONTHS OLD PULLETS
200 S. C. White Leghorns
300 S. C. Anconas

COCKERELS
Barred and White Rocks; Rhode Island Reds; White Wyandottes, English White Leghorns; S. C. Anconas. We shall be pleased to answer inquiries about any of this stock. Pure Breed Practical Poultry, well bred up for practical purposes. Have you a copy of our 1920 Catalog? Everything is guaranteed.

STATE FARMS ASSOCIATION,
Desk 1, Kalamazoo, Michigan

BARRED ROCKS

Cockerels, Pullets, April hatched, get Norman's superior strain direct. Catalogue 25c. Circular free. **NORMAN POULTRY PLANT,** Chatsworth, Ill.

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

Barred Rocks egg contest winners, eggs from strain with records to 230 a year. \$2.00 per setting prepaid by P. P. Circular free. **FRED ASTLING,** Constantine, Mich.

BARRED ROCKS. Park's 200-egg strain cockerels which will produce fine layers next year, \$3 each. **R. G. KIRBY,** R. 1, East Lansing, Mich.

Whittaker's Red Cockerels

Both combs. Special discount on early orders. Write for Price List. **INTERLAKES FARM,** Box 99, Lawrence, Mich.

Cockerels and Hens: Leghorns, Minorcas, Campines, Reds, Rocks, Orpingtons, Brahmas, Wyandottes. Tyron Poultry Farm, Fenton, Mich.

Fowler's Buff Rocks. We are now booking orders for eggs. A few choice cockerels left. **R. B. FOWLER,** Hartford, Mich.

Silver Laced Golden and White Wyandotte eggs from best quality only \$1.75 per 15, \$3.25 per 30 by prepaid parcels post. **C. W. BROWNING,** R. 2, Portland, Mich.

Single Comb White Leghorns

Cockerels from our exhibition matings April hatched \$3.50 each. Four fine cock birds \$5.00 each. **SUNNYBROOK POULTRY FARM,** Hillsdale, Mich.

Rhode Island Whites

Are the best all purpose birds being year round layers. Eggs and chicks and a few good males. **H. H. JUMP,** Jackson, Michigan.

S. C. Anconas For Sale. 200 choice Pullets, 100 yearling hens 50 cockerels. Prices pullets \$2.50, hens \$2.00 cockerels \$3.00 to \$10.00 each. Order direct from this ad. satisfaction guaranteed. **Elmhurst Poultry Farm,** Brighton, Mich.

S. C. Black Minorca Cockerels, from pen headed by \$30, 11 1/2 lb cock bird. These cockerels will be very large with quality. **R. W. MILLS,** Salline, Mich.

S. C. White Leghorns. Ferris 254 egg strain. Superbreeding cockerels only \$4 and \$5 each. Order now. **ALVAH STEGENGA,** Portland, Mich.

White Wyandottes Breeding stock for sale. Heavy egg strain. Prize winning birds. Special prices on mated pens. **LONG ELM FARM,** Earle R. Morrish, R. 6, Flint, Michigan.

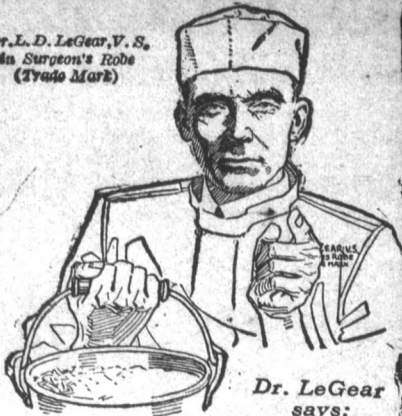
TURKEYS Michigan's best Giant Bronze breeding stock. Large, vigorous, healthy. A few very fine White Leghorns cockerels, Wyandotte strain, \$5.00. **N. EVALYN RAMSDILL,** Ionia, Mich.

White Chinese Geese,

White Pekin Ducks, R. C. Br. Leghorns. Order early. **Mrs. CLAUDIA BETTS,** Hillsdale, Mich.

White Holland Turkeys White African Guinea 80 lbs. out \$30, 11 1/2 lb cock bird. Reference C. H. Burgess, Prof. Poultry Mich. Agri. College. Farm for sale. **Alden Whitcomb,** Byron Center, Mich.

Dr. L. D. LeGear, V. S.,
in Surgeon's Robe
(Trade Mark)



Dr. LeGear
says:

"Turn more feed into pork"

"Hogs should produce one pound of pork for every five pounds of feed they eat that is equivalent to corn meal in fat, carbohydrates and albuminoid elements. If they do not, their digestive organs are not functioning properly and need regulating and help. And statistics prove that most hogs have ailments or worms in some degree."

Thousands of Hog raisers are making more money; raising bigger and fatter hogs by using Dr. LeGear's Hog Prescription. It helps to put and keep hogs in healthy, vigorous condition, sharpens the appetite, purifies the blood, tones up the system and aids in expelling worms. This is what Hugh Cox, Clifton Springs, N. Y., says:

"I bought a hog that was nothing but a shadow—weighed 90 lbs. After feeding Dr. LeGear's Hog Prescription for six weeks it

weighed 275 lbs. Have used a great many of Dr. LeGear's Remedies and have always found them highly satisfactory."

Dr. LeGear's Hog Prescription

Get a pail or package from your dealer today.
Dr. L. D. LeGear Medicine Co., St. Louis.



Feed Every 3rd Hog FREE

Save feed and get your hogs ready for market in less time. Prove at our risk that you can save fully one third your feed, making it possible to feed every third hog free by feeding

Milkoline At 2c a Gallon

Milkoline has a base of pasteurized and sterilized, modified Buttermilk. It is guaranteed not to contain any sulphuric acid or anything of an injurious nature to hogs or poultry.

Aids Digestion: Thousands of the most successful hog raisers from New York to California during the past seven years have proved that Milkoline helps and assists digestion, tending to insure perfect assimilation of feed. It helps tone up the system so that hogs are less subject to disease, and practically insures gains of 2½ pounds per head per day.

University Tested Professor W. B. Combs while Ass't. Prof. of Dairy Husbandry at Missouri University conducted a scientific test on Milkoline and found that Milkoline fed hogs put on more weight and showed 82.57% more profit than hogs not fed Milkoline. W. H. Graham a successful feeder of Middletown, Mo., said \$30 worth of Milkoline made him an extra profit of \$420. Lee Jackson of Wappingers Falls, N. Y., says Milkoline fixed up a bunch of shoats in fine style and is great for brood sows.

Can't Spoil: Milkoline is guaranteed not to rot, sour or mould. It will keep indefinitely in any climate. Flies do not come near it. It is always uniform, and is guaranteed to make you money or it doesn't cost you anything.

—Distributed by—

SCHWARTZ BROS.,

Saginaw, Mich.

NOW READY TO SHIP

DRIED BEET PULP

Palatable succulent vegetable feed for dairy cows, beef cattle, sheep and hogs

We can take care of orders from any part of the country

The Larrowe Milling Company
Detroit, Mich. Los Angeles, Calif.

Our Boys' and Girls' Page

Lenawee Live Stock Clubs

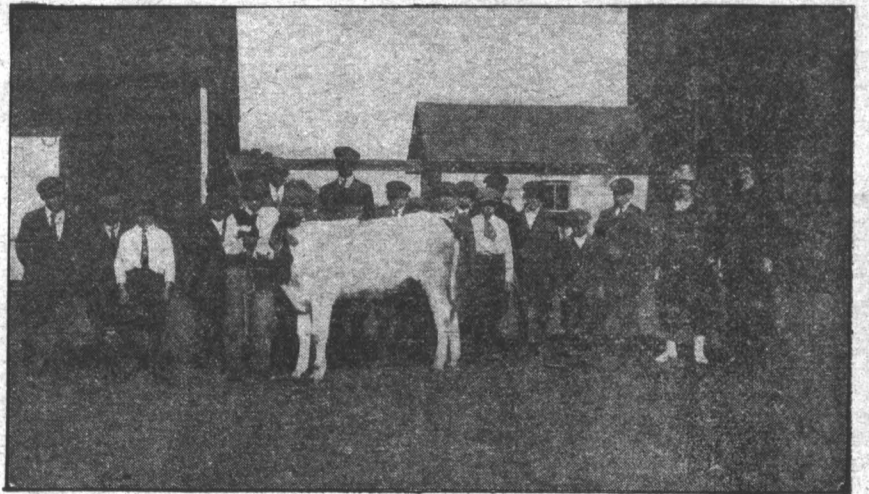
THE members of the live stock clubs of Lenawee county, Michigan, are developing considerable business ability along with some very fine live stock. The boys and girls are showing a lively interest in club work this summer and the results have been particularly good. The business training involved is certainly one of the most important phases of club work and too great emphasis cannot be placed upon it since ideas regarding business transactions are often very vague to boys and girls of club age.

The plan of financing club work is a problem in many communities. The method employed in Lenawee county has proved very satisfactory to all concerned and the actual business dealings which the boys and girls carry on are valuable lessons in business training. Everything is carried on in as regular a manner as possible. The county agent selects the animals, securing the best and most uniform that can be had, and the farm bureau buys them. Each boy who takes an animal

gives his note for six months and bearing seven per cent interest, to the farm bureau. This note may be renewed at the end of the six months if the club member desires to continue the project. This is especially desirable in the case of clubs taking breeding animals.

The National Bank of Commerce of Adrian, through which the farm bureau does its business, takes over the notes and deposits them to the credit of the farm bureaus. In this way the farm bureau stands back of the notes and yet the bank provides the funds. Each boy and girl is also required to pay insurance, which teaches another good business principle. A new plan of cooperative insurance is being worked out and will be put into effect this winter.

Lenawee county is doing its best to make sure that the farmers of the future will be business farmers. The value of club work will certainly be evident in better live stock, better business farmers, and general agricultural improvement.



The Calf Club members of Lenawee County are enthusiastic over their work. This 1920 prize calf is being held by its owner, Theo. Knopf. Miss Marjorie Place is County Club Leader.

A Big Opportunity—By Uncle Ed

NOTHING is troubling this country of ours more at the present time than the tendency to regard lightly the rights and privileges of citizenship which is displayed by a great many people. Go wherever we will, we are apt to hear men and often women speak slightly of our form of government, and especially do they frequently refer to those who have been duly elected according to the laws of the land to exercise authority in belittling terms.

This inclination to find fault with and to criticize the national government, and in fact all government and the officials who represent us in legislative, executive and even judicial departments, is having a demoralizing effect upon many who have come to us from other countries. We can scarcely go anywhere that we do not find some persons of foreign blood. They are often very near to our homes. They go to our schools, they mingle with us in our daily work, some of them are in our homes, employed in one capacity or another.

And these people are quick to hear what we say about public men and the affairs of state and nation. The boys and girls are particularly ready to watch our own young people and to imitate them in thought and speech. If they hear our boys and girls referring lightly to the national, state or local forms of carrying on business or

criticising freely the officers whom we ourselves may have helped to elect, it will not be long before they, too, will look with unfriendly eyes upon our institutions and our men in power. Not only that, if this goes on we are apt to find that these young men and women will come to be voters who regard the ballot more as a means of destroying government than as a means of building up and maintaining good government. So will the peace, the safety and the well-being of this country we love so well be undermined.

JUST here comes in a most important privilege on the part of young folks. They mingle so freely with the boys and girls of foreign-speaking nations who have come to be with us, that they can have a wonderful influence upon them for good or for evil. They can, and they do, shape the thought and the action of these newcomers to a greater extent than do any other people. Even the teachers in our schools, intimate as they come to be with these pupils of the foreign blood, do not have the power to mold the lives of their pupils as do the young people, with whom they meet in classes, in the home and almost at every turn. And here is your opportunity, boys and girls. You may help the young people of foreign extraction to be true, earnest, loyal citizens of this republic

of ours. For if you are yourself a firm patriot, speaking well of the form of government under which you live, and doing all you can to uphold its principles, they, too, will be led to love this land more and more and to seek its best good.

In other ways, also, you may be of aid to them in becoming devoted citizens of the best country the sun shines upon. If you have a good book, a book that teaches what has been done by men and women of the past to found and carry forward this nation to its present place of power among the nations of the world, you can let them take it, if they can read it with understanding; if not, you can sit down with them and read it to them or tell them the story.

Then, too, you can be respectful to the flag of our country. You can show your loyalty in a thousand different ways. You can be very careful about what you say. You can love the Sabbath day. You can be true to church and school. You can be good and kind and true to every living creature, especially to those who were not born in this country. And these things will be of more help than you ever can know in making the men and women of a few years hence better and more devoted citizens of our country. It is a great work and no one can do it as well as you can.

NO HARD LUCK STORIES.

SOME boys I know of who belong to a boys' club have just met with a little disappointment. They have been growing some calves and they are good ones. But when they had their fall meeting the other day, bringing their calves together for exhibition and sale, the prices offered was not enough to pay the cost of raising the calves. Somehow all bids were too low and the boys took their calves back home with them.

It was not the boys' fault that this was so. The calves were fine, but conditions were not as favorable for making sales as they have been in the past. But the boys are not a bit discouraged. They have gone back home with this determination: "We'll grow better calves than ever another year, and we'll stick to it till we win!" Could anything be finer than that? Those boys are bound to win.

CAN THEY KEEP IT UP?

AT a county spelling match a few days ago, the girls beat the boys, and beat them pretty badly. Now the question is, can they keep it up? Is it a fact that as a rule the girls are better spellers than the boys? The boys say it is not, and that it only happened this time that they failed to make good. But they have made up their minds that this shall never take place again. Another year we will see some spelling done. But the boys are not going to have an easy time of it. So the girls say. If the boys carry off the prizes, they will have to earn them, which is all right. I do not believe any of our young folks want anything which they have not paid for in good honest toil and effort. So it is plain that there is going to be some scrabbling between now and the next spelling bee. Wouldn't we all like to be present at this match?—V.

Nelson Dickinson walks in his sleep and likes shredded wheat biscuits. One night he dreamed he was eating a big biscuit and woke up in the barnyard right where there was a hole in the strawstack. He fainted and it took two dips in the horse tank before he began to come to. Nelson says he really don't believe he ate much of the straw but it made him feel awful big and queer when he first woke up.

Do you know that \$70 worth of good Buffalo Corn Gluten Feed mixture, well fed with good roughage, can produce, at current prices, \$245 to \$280 worth of milk?



WITH milk bringing around \$3.50 a hundred pounds, and more than that in many sections, and the price of BUFFALO CORN GLUTEN FEED lower, present and prospective dairy profits are better than they ever have been.

The feeding of high-protein, highly digestible, milk-producing BUFFALO CORN GLUTEN FEED liberally to good cows assures you of the largest and most economical milk production—the widest possible margin of profit over cost of grain feed.

FEED UP! FEED BUFFALO CORN GLUTEN FEED

Your dealer should have BUFFALO CORN GLUTEN FEED for you. If he does not, write us, saying who and where he is. We will be glad to send you sample and literature.

Corn Products Refining Co.
New York Chicago

Write to

National Starch Co., 606 Ford Bldg., Detroit, Mich.

BREEDERS' DIRECTORY

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

Wildwood Farms Angus

Effies Lass 238203 sold on May 6th for \$7100. She was sired by Black Monarch 3rd. We are offering for sale Editor of Wildwood 295059 a full brother in blood lines to Effies Lass also four more choice bulls which are old enough for service and sired also by the champion show and breeding bull Black Monarch 3rd.

Our herd is under State and Federal Supervision.

WILDWOOD FARMS
ORION, MICHIGAN

W. E. SCRIPPS, Prop., Sidney Smith, Supt.

WOODCOTE ANGUS

Imported Herd Bulls
ELCHO OF HARVESTOWN (45547)
by Jason of Ballindalloch (38048)
EDGARDO OF DALMENY (45501)
by Escort of Harviestown (36008)
Woodcote Stock Farm, Ionia, Mich.

Angus Catt'e for sale. My herd of 13 pure bred Angus cattle at about half value for quick sale. I also have two loads of good 2 year old feeder steers. W. H. PRICE, East Tawas, Mich.

For Sale Longwood Farm herd of Aberdeen Angus Cattle 7 head including calves and would sell full set of herd books with them. MARSHALL KELLY, R. 10, Charlotte, Mich.

For Sale Registered Guernsey bulls. May Rose breeding cheap if taken soon. Come or write. John Ebels R. 2 Holland, Michigan.

SPRING DELL FARM GUERNSEYS
For sale: Choice of two bulls two and three years old; also bull calves three to twelve months. Registered. Splendid individuals and breeding. Prices right. WHITE BROTHERS, R. 2, Box 20, La Porte, Indiana.

FOR SALE Registered Guernsey heifers, yearlings and calves. E. A. BLACK, Route 3, Howard City, Mich.

Guernsey Bull Busto of Smallidge Farm, born Feb. 2nd, 1920. Sire Bennie of the Ridge, who's dam Trixy of the Ridge holds first place in class E.D. in Michigan. Granddam Abbie of Riverside is champion of Mich. Dam May Kings Exaltia of Eau Claire an A. R. cow. E. J. SMALLIDGE, Eau Claire, Mich.

Pure bred Guernsey bulls from one to four weeks old. Registered \$30, not registered \$25. Orders shipped in rotation received. No excuse for scrub bulls. WALTER PHIPPS FARM, 30 Alfred St. Detroit, Geo. E. Currie, Mgr.

GUERNSEYS—Federal Inspected. Headed by only G son of Carrie of Hillhurst, exchampion of A. A. class. 5 bulls under 10 mos., 1 a dandy whose dam in class D has given over 50 lbs. milk. No females to spare. G. W. & H. G. RAY, 4 mi. east of Albion, Mich.

GUERNSEY BULL CALVES whose sire's dam made 19,400.20 milk, 99.05 fat. Their mother's sire's dam made 15,100.10 milk, 78.80 fat. T. V. HICKS, Battle Creek, Mich.

Registered Guernseys
a 6 months old bull (100%) satisfaction for \$100. A nice heifer calf \$150.
J. M. WILLIAMS, North Adams, Mich.

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

**Facts in
BLACK & WHITE**

The Dairy Division at Washington Says:

"As the production of a cow is doubled profits increase three times. As production is trebled profits increase six times.

"The average cow in the United States yields 1823 quarts of milk yielding 207 pounds of butter a year. Average profit per cow \$20 over cost of feed."

The average production of all purebred Holsteins that have been officially tested for a year is 629 pounds of butter from more than 7000 quarts of milk.

In yielding more than three times as much as the scrub cow, the purebred Holstein yields six times the profits. As production is tripled profits increase six times.

Send for free illustrated booklets.

THE HOLSTEIN-FRIESIAN ASSOCIATION
164 Hudson Street
Brattleboro Vermont.

NOTICE

The Winwood Herd

on Nov. 1st will move their Herd of Pure Blood Holsteins to their new home, 1 1/2 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

Long Distance HOLSTENS, HERD-SIRE PRINCE ONA
Five dams av. 1186 lbs. butter and 24771 lbs. milk in 1 yr. Bulls all sold. State and Federal Supr.
A. FLEMING, Lake, Mich.

33.6 lbs. butter 608.1 lbs. milk in 7 days aver. of 3 dams of 3 mo. old bull. Price \$250 Terms. King of Pontiac, Maplecrest and Pictet breeding. M. L. McLAULIN, Redford, Mich.

OUR HERD SIRE

Model King Segis Glista

By a 30 lb. son of Lakeside King Segis Alban De Kol. His dam Glista Fenelle 32.37 lbs. Her dam Glista Ernestine 35.96 lbs. His three nearest dams average over 38 lbs and his forty-six nearest tested relatives average over 30 lbs. of butter in seven days. Write for prices on his sons.

Grand River Stock Farms
Cory J. Spencer, Owner Eaton Rapids, Mich.

The Traverse Herd

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

TRAVERSE CITY STATE HOSPITAL
Traverse City, Mich.

An Introduction

Mr. Dairy Farmer, Mr. Holstein Breeder Meet
KING FLINT

ALL THREE are working to a common purpose—to increase the production of Michigan Dairy herds. We believe all three should work together.

We feel sure that no Michigan bull has ever been better equipped for the work.

We have it on high authority that there are none better individually.

His three nearest dams each averaged to produce 100 lbs. butter and 2100 lbs. milk per month for a full lactation period with an average of 3.8% fat.

His dam is one of Michigan's greatest families—three full sisters that have produced over 30 lbs. butter in seven days, two of them producing over 700 lbs. milk, and two of them producing more than 1000 lbs. butter and 21000 lbs. milk in ten months.

His sire is the direct descendant of three generations of 30 lb. cows and two generations of 1200 lb. yearly record cows.

His first three sisters to enter yearly test will each produce more than 800 lbs. butter and 17000 lbs. milk as heifers.

Let King Flint Help You Improve Your Herd Through One Of His Sons

A son of this great young sire suited to head any herd in Michigan, grade or purebred, can be secured in Genesee County and we want them all to stay in Michigan.

Write us about your herd, tell us what you need and what you feel you can afford to pay and let us help you find just what you want in Genesee County, the center of Michigan's long distance dairy cattle.

Genrida Farm **Elmcrest Stock Farm**
Walter T. Hill G. L. Spillane & Son Co.
Davison, Mich. Clio, Mich.

Superior Holsteins
Bulls all sold but are now booking orders for our expected fall crop of

Bull Calves
sired by my new herd bull, a grandson of

May Echo Sylvia

My sire's two nearest dams average over 35 lbs. butter and 800 pounds milk in seven days.

A. W. COPLAND
Birmingham, Mich.
Herd under state and federal supervision

"Top Notch" HOLSTEINS

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

Bull advertised last week was bought quickly by an Allegan County Dairyman.

Here's another "Top Notcher"—
King Colantha Genieve Pieterette,
No. 272177, Born Feb. 3, 1919.

Sire's dam a 30 lb. cow with a 31 lb. daughter, who has a 31 lb. 4 yr. old daughter.

Dam's record:—Butter 7 days 23.26 lbs. at 4 yrs. Dam's sire's three nearest dams average 30.87 lbs. butter in 7 days. Color: about half and half.

Price \$150.00 f o. b. Howell.
McPherson Farms Co. **Howell, Mich.**
All herds under U. S. Supervision.

Holsteins of Quality
for sale. Heifers from 8 to 24 months old. All registered and sold subject to tuberculin test.
E. A. HARDY, Rochester, 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.

A Good Note accepted in payment of finely bred registered Holstein bull calves. Quality of the best, and at prices within reach of all. Write, GEO. D. CLARKE, Vassar, Mich.

H. C. POTTER

JAY HARWOOD

Breeders' Sale**REGISTERED
HEREFORDS****Thursday, Nov. 18, 1920
CHARLOTTE, MICH.****at Eaton County Fair Grounds, 1 P.M.**

35 head of high class cattle. 20 cows with calves at foot. A few yearling and two year old bred heifers and 6 yearling bulls. This is an offering of good well bred cattle, just in pasture condition. The kind that will make good. We ask the breeders of Michigan to be with us and lend their support and cooperation.

Bulls in service:

Captain Stamway 733192

Don Fairfax 704378

Keep On 508019

Calves are by and cows and heifers bred to these good bulls.

H. C. Potter and Jay Harwood

Ask for Catalog

Cluny Stock Farm

Offers the best selection of young bulls from 8 to 12 months we ever raised; out of dams up to 29.76 for aged cows and over 26 lbs. for 2 yr. olds. Yearly records up to 24000 lbs. milk and 1000 lbs. butter. Sired by our Senior Herd Sire, Maplecrest Application Pontiac, whose dam made 35 lbs. butter in 7 days and 1344 lbs. butter and 23421 lbs. milk in a year, or by Dutchland Konigen Sir Rag Apple, our Junior Herd sire, whose dam is a 30 lb. 10 yr. old maternal sister of Dutchland Colantha Denver who made 36 lbs. in 7 days and 1315 lbs. butter and 25431 lbs. milk in 1 year. Several carry the blood of both these sires.

They are extra well grown, straight and right. One of these at the head of your herd is bound to increase production.

Send for pedigrees and prices.

R. Bruce McPherson, Howell, Mich.**You Can't Afford**

to use an inferior herd sire. The old saying was, "The sire is half the herd," but we say, "A poor sire is all the herd." Good Holstein Bulls of all ages, at reasonable prices.

Write Us.

**MICHIGAN HOLSTEIN-FRIESIAN
ASSOCIATION****H. W. Norton, Jr., Field Secretary,
Old State Block, Lansing, Michigan**

BARGAIN PRICES on pure bred Holstein heifers and young bulls ready for service.
JOSEPH H. BREWER, Grand Rapids, Michigan

Reg. Holsteins For Sale. A few choice cows and heifers. 2s.3w St. Johns.
J. R. HICKS, St. Johns, Mich.

For Sale A whole herd of 44 pure bred Holstein cattle, you can buy one or the whole herd if sold right away very cheap.
PERRY E. HILLIER, Flushing, Mich.

HEREFORDS

We want 25 heifer calves from our herd bull **RENNER BULLION**. We will buy part of them from you, if you buy cows from us. We will give you a contract to buy back the heifer calves from the cows you buy from us, at \$150.00 each. Correspondence Solicited.

COLE & GARDNER, Hudson, Mich.

Herefords Double Disturber bull at head of herd. Offer 52-yr. olds, bred, 9 yearling and 5 heifer calves. Fairfax breeding. Bulls any age.
EARL C. McCARTY, Bad Axe, Mich.

Herefords. 24 yr. old reg. cows, due soon. 21 yr. old heifers. 14 yr. old bull not related to above females. A good bunch for a beginner. Also 1 nearly 2 years old and 2 coming 1 yr. old, all heifers, from above cows. **O. F. BARKER & SON, Olio, Mich.**

**BROOKWATER
JERSEYS**

Register of Merit Jerseys won 3 championships 16 first and 5 second prizes at the Mich. State Fair. Ready for service bulls at profitable prices.---

**Brookwater Farm,
Ann Arbor, Mich.
H. W. Mumford, Owner
J. B. Andrews, Mgr.**

Jerseys For Sale

A few good cows and heifers of good breeding priced right for quick sale. **O. G. ANDERSON, Atlas, Mich.** On D. U. R. Flint branch.

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
CRYSTAL SPRING STOCK FARM,
Silver Creek, Allegan County, Michigan.

JERSEY BULLS Ready for service, Lad, Majesty breeding. Meadowland Farm, Waterman & Waterman, Packard Rd., Ann Arbor, Mich.

Jerseys For Sale, Register of Merit stock of both sex.
Smith and Parker, Howell, Michigan.

For Sale Jersey bull calves of Majesty breeding from good producing stock. Herd on Government "Accredited List." Write for price and pedigree to **C. A. TAGGETT, R. 2, Fairgrove, Mich.**

Lillie Farmstead Jerseys 2 R. of M. bull calves, one year old this fall.
C. C. LILLIE, Coopersville, Mich.

Jersey Bulls from R. of M. dams \$75 to \$150 each.
NOTTEN FARM, Grass Lake, Mich.

JERSEYS. Choice registered stock at farmer's prices. Males and females. Tuberculin tested. Also Giant Bronze turkeys. Ten Have Farm, R. 2, Holland, Mich.

Bloomdale Shorthorns Why use scrubs when you can buy a registered bull for \$100. We have two at that price. Also some good females.
CARR BROS. & CO., Bad Axe, Mich.

Milking SHORTHORNS. Olay bred bull calves Herd under Federal Supervision.
Davidson & Hall, Beland & Beland, Tecumseh, Mich.

Dispersion Sale**40 Registered Holsteins 40
10 High Grade Holsteins 10**

Estate of Charles R. Woolger of

Wayne, Michigan**Friday, November 5th, 1920**

A splendid herd to choose from where the buyer can select anything he wants from a choice heifer calf to a 32-lb. herd sire of excellent breeding.

Among the offerings there will be 15 cows safe in calf to a 29-lb. grandson of Pontiac Butter Boy. 5 yearling daughters of King Segis Champion Mobil bred to a 29-lb. bull. 2 young cows bred to Huron Hill Canary Nig De Kol. He weighs 2700-lbs. and his dam has a 32 lb. record. Grand Champion at Wayne County Fair. 1-32-lb. bull sired by a good son of King of the Pontiacs a 29-lb. bull sired by a good son of Pontiac Butter Boy. 2 yearling bulls out of high class sires and good A. R. O. dams. Cattle over 6 mon. tuberculin tested and sold with a 60 day retest privilege.

Send for catalogue and attend this sale

**Charles Thompson
Auctioneer****Glen Bird
Sales Manager****R. Austin Backus
Pedigree Expert**

Sale held on farm 4 mi. west of Wayne on Michigan Ave.
Local D. J. & C. Cars Stop at Farm.

Shorthorns Scotch and Scotch Topped bulls and heifers priced right. Sultan Champion heads herd, one scotch two yr. old herd bull by Red Cumberland priced right.
H. J. FLOWER & SON, Milo, Mich.

BIDWELL SHORTHORNS

You Can Buy

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

**BIDWELL STOCK FARM,
Box D, Tecumseh, Michigan**

Richland Shorthorns

Imp. Lorne, Imp. Newton champion and Sterling Supreme in Service. We offer for quick sale: Five Scotch Bulls, best of breeding. Three whites at \$1000 each. One roan at \$500, one red at \$400. No females for sale. Public sale Chicago Oct. 28th.
**C. H. PRESCOTT & SONS,
Tawas, City, Mich.**

Fairland Shorthorns. Bred for beef and milk. For sale young bulls from 3 to 12 mos. Two are grandsons of Jewell all sired by Walgrove star. Reds and roans, prices \$100 to \$200, also Shropshire rams priced right.
JOHN J. FOSTER & SONS, R. 5, Niles, Mich.

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

MEADOW HILLS Shorthorns. Herd headed by Silver King, full brother of Lavender Sultan. Purdue University's great sire. For sale females of all ages, a few young bulls. **Geo. D. Doster, Doster, Mich.**

For Sale Several young bulls, sired by Sultan's Standard. A few heifers and cows. Prices reasonable. Branch County Farm breeders of American Polled Shorthorn cattle. **C. E. Burdick, Mgr. Coldwater, Mich.**

Milking Shorthorns of best Bates breeding, bulls 6 to 8 mo. old for sale.
E. H. KURTZ, Mason, Mich.

Shorthorns of Merit Both males and females for sale.
ARTHUR DODDS, Lapeer, Michigan

Milking Shorthorn 3 mos. heifer calf \$125 bred heifers and serviceable bulls at farmers' prices. Central Mich. Shorthorn Assn. Oscar Skinner Sec. Gowen, Mich.

For Sale Shorthorn Bull, Roan 9 mos. old.
W. J. BURLEY, Williamston, Mich.

1904-1920 Shorthorn bull, choice breeding ready for service soon. Guaranteed as represented.
E. J. Kniekerbocker, R. 2, Homer, Mich.

Red Polled cattle for sale bulls from 4 to 18 mos. also cows with calves by side and heifers.
G. A. CALHOON, Bronson, Mich.

Reg. Red Polled cattle choice young bulls from 6 to 18 mos. old for sale.
FRANK KEBLER, R. 1, Grand Lodge, Mich.

Reg. Red Polled Bull calves for sale, from 3 mos. to 1 year old, sired by Famous Charnier grand son of Charnier 1919 International Grand Champion.
WESTBROOK BROS., Ionia, Mich.

FOR SALE Red Polled Bull Registered extra good 4 years old.
Maurice Welch, P.O. Box 102, Sault St. Marie, Mich.

HOGS

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

Fine Registered Berkshire pigs for sale, prolific, large litters.
C. H. WHITNEY, Merrill, Mich.

Splendid Berkshires Late sum fall litters. Both sexes. Write for prices and pedigrees.
BURR B. LINCOLN, Harbor Beach, Mich.

For Sale Registered English Berkshire Boars also sows one and two years old. Fine pure bred Pekin Ducks.
Robt. P. Reavey & Son, R. 1, Caro, Mich.

Brookwater Duroc Jerseys**BOARS—Ready for Service**

Big type, large bone and rugged with plenty of quality. This is your chance to buy high class individuals at reasonable prices.

Open Gilts

of choice breeding and right type. Panama Special, The Principal 4th, Orion Cherry King, and Great Orion families. Now is the time to buy before the demand takes all of the good ones.

Write us for Prices and Pedigrees
Mail orders a Specialty. Satisfaction guaranteed.

BROOKWATER FARM**ANN ARBOR, MICHIGAN****H. W. Mumford, Owner J. B. Andrews, Mgr.**

Reg. Berkshire Boar 1 yr. old for sale or will exchange for one as good.
B. B. REAVEY, Akron, Mich.

BLUE HOGS. Large, growthy and prolific. Write for booklet. Everybody likes them. The Blue Hog Breeding Co., Wilmington, Mass.

DUROC JERSEY SWINE

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



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

For Sale Duroc Jerseys of the big heavy bone type.
CHAS. BRAY, Okemos, Mich.

Duroc sows and gilts bred to Walts King 2949 at the State Fair in last 2 years than any other Duroc boar. Everyone will be a money maker for the buyer. Cat. and price list.
NEWTON BARNHART, St. Johns, Mich.

DUROC Boars Ready for service, sired by the following boars. Brookwater Demonstration, The Principal 19th, Panama Special 4th, Walts King and Oakwood Gold Stamp. Prices \$40 and up. Come and make your selection early, mail orders carefully selected. Rush Bros., Oakwood Farm, Romeo, Mich.

DUROCS spring boars. A few gilts bred for Sept. farrow at bargain prices.
W. O. TAYLOR, Milan, Mich.

Durocs: Do you want young boars sired by Pathfinder. I have them.
E. D. HEYDENBERG, Wayland, Mich.

12 Choice Duroc gilts bred to farrow July and August. Daughters of Michigan Cherry Gold, bred to Jacks Cherry Orion King Number 169259. Son of the \$10,000.00 champion Jacks Orion King 2nd. All large type, heavy bone gilts, 250 to 300 lbs.
THE JENNINGS FARM, R. 1, Bailey, Mich.

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

Duroc Jerseys of the right type, good blood lines and in good condition at a price you can afford to pay. Guaranteed to suit you.
W. E. Bartley, Alma, Mich.

Duroc Jersey's. Herd headers in boars. Why? Because they are bred right, fed right, grown right and from Grand Champion stock. Write or better come and see.
F. J. Drott, R. 1, Monroe, Mich.

Duroc Pigs. \$10.00 each. Pedigree furnished. Duroc gilts \$30 to \$35 with papers. Duroc boars: \$25.00 old enough for service.
FRANK LAMB, Cassopolis, Mich.

Think Boys and Act, start in the

Large Type Poland Chinas

right by coming to

Clarke's 3rd Annual Fall Sale

and buying some of as good as can be bought anywhere, you can get your choice of 50 head of top boars and gilts

NOV. 9th, 1920

sired by
Orphans Superior
L's Big Orange
L's Long Program

Lord Clansman
Smooth Wonder 3d.
Arts Progress

This offering will far surpass my offerings of the past they are the long, high backed, stretchy kind they are all craving over. Sale held on farm under cover. Write for catalogue.

All trains will be met.

AUCTIONEERS

Col. Ed. Bowers, South Whitley, Ind.
Col. Jim Post, Hillsdale, Mich.
Col. Porter Colstock,
Eaton Rapids, Mich.

WM. J. CLARKE, Prop.
Eaton Rapids, Mich.

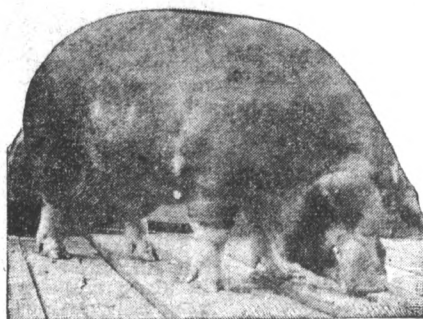
W. M. KELLY for The Michigan Farmer

Those Who Have Made Arrangements to Attend My Sale Can Easily Reach Hanover in Time for W. B. Ramsdell's Sale Wednesday, November 10th.

BIG TYPE POLAND CHINAS

WILL BE SOLD

36 Head WEDNESDAY, NOV. 10th 36 Head
W. B. RAMSDELL, Hanover, Mich.



Smooth Wonder, Senior Herd Sire

All animals in sale have been double-immuned. Certificate furnished with sale.

Hanover can be reached by way of Jackson or Hillsdale, Mich.

Among the offerings are gilts from spring litters out of Lady Wonder and Lady R, sired by Clansman's Image 2nd. These pigs are well-grown, carry strong arched backs and have wonderful bone. One of the above sows will be sold.

Fashion Belle, a daughter of Big Fashion; her dam, by The Clansman, will be represented in sale by gilts and boars, sired by The Outpost, the boar that sold for \$10,000 at 10 months of age, the record price for a boar of that age of the Poland China breed. Here is one of the opportunities you have been waiting for.

Lady Wonder 2nd and Nellie R both go in sale along with gilts from spring litters. They are real brood sows and their pigs are hard to beat.

King's Giant, one of our herd sires, will be sold along with about five or six young boars from the above lines of breeding. All good, strong-backed, big-type fellows with plenty of quality.

All sows and open gilts will be sold with privilege of breeding to either of our herd sires if not safe with pig at time of sale. These gilts will be held and bred at our expense.

Sale will be held under cover on the farm, Wednesday, November 10th at 12:30 o'clock. Catalogs will be mailed on request.

W. B. RAMSDELL, R. D., Hanover, Mich.
COL. BILLY WAFFLE
Auctioneer

W. M. KELLY

For The Michigan Farmer

Those attending W. J. CLARKE'S Sale Tuesday, can reach Hanover in time for my sale Wednesday.

Shorthorns—Shropshires

The B. D. Kelly Estate will sell

AT AUCTION

WED. NOV. 10, 1920, AT 12.30

on the farm 3½ miles south of Ypsilanti, Michigan 30 Shorthorns of the Beef type with milking ability consisting of 26 females and 4 bulls including the "Campbell Claret" herd bull Banker 717768 sired by Imp. Hillhead Chief Dam Imp. Claret 23.

Also 60 Reg. Shropshire sheep of all ages, both rams and ewes. This is one of the oldest breeding establishments in Michigan Catalog ready Nov. 1. Lunch at noon. Trains met A. M. of sale day.

ANDY ADAMS, Auctioneer
L. C. & W. B. KELLY, Administrators

O. I. C. BOARS

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.

HOGS

Michigan Farm Durocs. Service boars and open gilts for sale at \$40 and \$50. These are real hogs. Satisfaction guaranteed.
O. F. FOSTER, Mgr., Pavilion, Mich.

DUROC JERSEYS
Carey U. Edmonds, Hastings, Mich.

For Sale Purebred Duroc pigs of both sexes. Best of breeding and quality guaranteed.
DON. STARK, Grand Ledge, Mich.

Big Type Chester Whites. Choice, stretchy spring boars, also tried sows and fall gilts bred for Sept. litters. These hogs are big and will fatten at any age. Grand champion blood lines of the breed, Wildwood Prince Jr., Rajah, and Champion X. Cholera immune. Satisfaction guaranteed.
N. L. HILL JR., Mackinaw, Tazewell Co. Ill.

CHESTERS two good fall gilts bred to a boar of Wildwood Prince Jr. breeding for Sept. farrow; spring pigs.
F. W. ALEXANDER, Vassar, Mich.

Raise Chester Whites

Like This
the original big producers

I HAVE started thousands of breeders on the road to success. I can help you. I want to place one hog from my great herd in every community where I am not already represented by these fine early developers—ready for market at 8 months old. Write for my plan—Huge Money from Hogs.
G. A. BENJAMIN, R. F. D. 10, Portland, Michigan

SPECIAL prices on Fall, Winter and Spring boars during October.
WEBER BROS., R. 2, Royal Oak, Mich.

O. I. C.'s choice spring pigs either sex. Booking orders for fall pigs. We register free and ship C. O. D.
A. J. BARKER & SON, Belmont, Mich.

Look for Miller Meadows L. T. P. C.'s at Marshall Calhoun Co. Fair, Sept. 21-25
CLYDE WEAVER, Ceresco, Mich.

The World's Champion

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

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

Central Mich. O. I. C. Swine Breeders Ass'n.

Hogs of all ages of popular blood lines. Every sale guaranteed by association.

DR. H. W. NOBLES,
Sales Mgr. Coral, Mich.

For Sale O. I. C. Swine. Strictly Big Type with quality. Have a few 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.
NEWMAN'S STOCK FARM, MARLETTE, MICH.

O. I. C.'s. Stock of all ages for sale. Prize winning boars and gilts. Write for prices and state your wants. Registration free. Buy of the man who raises what he sells.
LOVE ELM FARM, Earle R. Morrish, R. 6, Flint, Michigan

O. I. C.'s. One last fall boar wgt. 4½, two last fall gilts, bred lots of spring pigs and this fall pigs either sex, good growthy stock ½ mile west of Depot Oitz's. Phone 124. Otto B. Schulze, Nashville, Mich.

For Sale. O. I. C. pigs wt. 35 to 40 lb. both sexes. Cholera immune. Sent C. O. D. Price \$20. 100% pure. Also reg. yr. sow, open, price \$80.
SLAYBAUGH & BROWN, R. 2, Pittsford, Mich.

O. I. C.'s June and July boars and open gilts. Recorded and express paid for next 30 days each one a guaranteed feeder. F. O. Burgess, R. 3, Mason, Mich.

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

Closing out sale of big type Poland China hogs, which represents the work of 25 years of constructive breeding. Everything goes, including our three great herd boars, "Mich. Buster" by "Giant Buster", "A Giant", "Butler's Big Bob". Two of the best yearling prospects in Michigan great length, big bone. Come get your pick. Jno. C. Butler, Portland, Mich.

Poland China Special

Boar pigs sired by Monster Big Bob and from our best sows, priced right for immediate shipment. Big-boned, strong-backed, smooth fellows from popular blood lines. Write for information or visit the farm.
BOONE-HILL CO., Blanchard, Mich.

Poland Chinas

Spring boars and gilts from the Sr. Champion boar at the State Fair at Detroit this year also Grand Champion at West Mich. Fair at Grand Rapids weighing 1025 lbs.

If you want something that will give you satisfaction let us sell you a boar or gilt.
ALLEN BROS., Paw Paw, Mich.

L. S. P. C.

Everything sold previously ad. 25 spring pigs placed on the bargain counter for mo. of Sept. pairs or trios not akin.
H. O. SWARTZ, Shoolcraft, Mich.

Big Type Poland Chinas

Our herd is representative of the best in Big Types. Choice boars for sale now. Wesley Hile, R. 6, Ionia, Mich.

L. T. P. C. We have a large number of spring and summer pigs ready to ship sired by such boars as "Hart's Black Prince", "Leonard's Big Bob", the "Model Clansman" and "Prospect Yank" a great son of the \$40,000 Yankee. Write for prices or come and look them over if you are in the market.
HART, FULCHER & CLINE, address F. T. HART, St. Louis, Mich.

Poland China Special pig sired by Hoyer's Giant 1297½ and from our best sows are the best we ever offered. Write for particulars.
DORUS HOVEN, Akron, Mich.

Big Type Poland Chinas. We want to sell you a boar pig. If interested write us and we will tell you all about him. We guarantee satisfaction.
HILLCREST FARM, Kalamazoo, Mich.

6 boar pigs best I have raised in my 15 years of breeding sired by Big Bob Mastodon a son of the world's champion. Price \$50 and 50 fall pigs send orders now.
C. E. GARNANT, Eaton Rapids, Mich.

BIG T. P. Chinas for sale. A few tried sows, spring boars. Aug. pigs both sex. Recorded free in buyer's name. L. L. Chamberlain, Marcellus, Mich.

I am offering Large Type Poland China Sows, bred to F's Orange, at reasonable prices; also fall pigs. Write or call Clyde Fisher, St. Louis, Mich. R.R. 3.

Lindhurst Poland Chinas

Stock for sale at all times. Public Sale Oct. 23.
WM. H. LIND, Alto, Mich.

Big Type Poland Chinas with quality, at reasonable prices. Pigs of both sex, and bred sows and gilts.
G. A. BAUMGARDNER, R. 2, Middleville, Mich.

BARGAINS on Big type spring and summer Poland China Pigs also yearling Shorthorn bulls, bull and heifer calves.
Robert Neve, Pierson, Mich.

HAMPSHIRE

1914 - - - - - 1920

Choice Spring boars, popular breeding. Booking orders for fall pigs. All stock Cholera Immune and guaranteed Breeders. Satisfaction guaranteed.

STEBEN'S HAMPSHIRE FARM
R. 3, Angola, Ind.

Additional Stock Ads on Page 547

LATEST MARKET REPORTS

GRAIN QUOTATIONS

October 27, 1920.

Wheat.

Detroit.—Cash No. 2 red \$2.21; December \$2.10; March \$2.06; No. 2 white and No. 2 mixed \$2.19.

Chicago.—No. 2 hard \$2.15@2.18; December \$2.09½; March \$2.02½.

Corn.

Detroit.—Cash No. 2 mixed 90c; No. 2 yellow 95c.

Chicago.—No. 2 mixed 84@85c; No. 2 yellow 84¼@86c.

Oats.

Detroit.—Cash No. 2 white 58½c; No. 3 white 57c; No. 4 white 54c.

Chicago.—No. 2 white 54½@55c; No. 3 white 52¼@53½c.

Beans.

Detroit.—Immediate and prompt are lower at \$4.40 per cwt.

Chicago.—Market easy. Hand-picked beans choice to fancy \$5.90@6.25.

New York.—Market continues dull. Choice pea \$5.75@6; do medium \$6.25.

Rye.

Detroit.—Cash No. 2 rye \$1.77.

Seeds.

Detroit.—Prime red clover cash and October \$12.50; December \$13; alsike 16.25; timothy \$3.30.

Toledo.—Prime cash \$12.95; December \$13.20; alsike \$16.50; timothy \$3.40.

WHEAT

Foreign purchasers continue to buy wheat upon all declines of consequence, continental countries being most active the past week as Britain was engaged with the coal strike. The world's export surpluses were decreased within the last ten days when India was stricken from the exporting list because of drouth and several reports indicate that the Canadian estimate is entirely too high. The fact that the spring wheat crop in our northwest was cut down sharply by the late estimates casts doubt upon the Canadian estimates which were increased decidedly late in the season. The move to have the Canadian government control the selling of wheat as it did last year has proved fruitless. Grain is being held by farmers in the central west. On Tuesday of this week wheat prices reacted strongly, advancing around a dime.

CORN

Cash corn has dropped to the lowest figures since 1916, due to the large receipts and slow demand. Several million bushels of corn were taken for export by Europe, but it failed to affect the price very long. Argentine still has around 90,000,000 bushels of corn available for export but the quantities shipped from the United States must be small from necessity, as we have passed the stage where we send the grain out, the bulk of the export business being in the shape of hog products. The open fall weather has been decidedly favorable for corn gathering and may result in a big early fall movement of new corn. As the crop size and reduced feeding operations mean a big surplus to be sent to terminals which already hold the biggest visible supply of many years.

OATS

Oat markets continue to reflect the big crop of feed grains and the absence of any tendency to buy beyond immediate needs. The visible supply has grown to tremendous size and probably will remain large for several months. Argentina has an oats surplus considerably below her average.

SEEDS

The declines in grain caused weakness in the seed markets, both red clover and timothy being lower than a week ago, with red clover at the lowest of the season. Alsike clover seed advanced, however. Receipts of red clover were relatively heavy. Closing prices were: Toledo.—1920 prime at \$12.95; 1919, prime timothy at \$3.50; prime alsike \$18.50.

FEEDS

Feed prices have taken an upward slant due to buying by dairymen and by trade interests who had made sales for future delivery at higher prices. The recent low spot is likely to be the lowest of the season unless grains become materially cheaper. The outlook does not suggest any sharp advance

from this level, however. Latest quotations per ton (100-lb bags) in carlots are: Chicago.—Bran \$35; standard middlings \$40; flour middlings at \$50; cottonseed meal, 41 per cent \$50; cottonseed meal, 36 per cent \$45; gluten feed \$45; hominy \$42; old process oil meal \$65; tankage \$100.

Detroit.—Bran \$38; standard middlings \$43; flour middlings \$53; coarse corn meal \$45; cracked corn \$47; chop \$41.

BEANS

The recent advance in bean prices has attracted sales of old beans held in store while new beans are beginning to appear on the market. A hopeful item is the small Japanese crop which will reduce the competition from abroad. The consuming public continues to buy from hand to mouth. Michigan farmers are being offered around \$4, with occasional bids 25c to 50c lower at country loading points.

HAY

Western markets for hay advanced during the past week, although eastern points show little change. Reduced receipts was the chief factor as the low prices hardly paid the high freights in the case of the low grades. Continued open weather has cut down the season's requirements which, with fairly large crops does not make the outlook for a big advance a flattering one. Latest prices per ton in carlots are as follows: Detroit.—No. 1 timothy \$29@30; standard \$28@29; light mixed \$28@29; No. 2 timothy \$27@28; No. 1 mixed \$27@28; No. 1 clover \$27@28; rye straw \$14.50@15; wheat and oat straw \$13.50@14.

POTATOES

Heavy shipments totaling about 1,100 cars per day have weakened potato prices both at shipping points and in consuming markets. Declines were

10c to 30c per 100 pounds. Many cars of immature stock are arriving which tend to aggravate trade conditions. Prices are now back practically to the September low level. Latest prices are: Chicago.—Northern Whites \$1.65@1.80 per 100 lbs; Northern Early Ohio at \$1.60@1.70. Detroit.—Michigan \$2.75 @3 per 150-lb. sack.

WOOL

The latest of the Australian sales of wool which are playing a big part in establishing world values were fully firm on the finer staple wools with American buyers taking their share. The lower grades declined slightly and withdrawals were 60 per cent. It is reported that 66-70's combings were quotable at \$1.15 to \$1.20 clean landed at Boston, based on \$3.60 for sterling exchange with good 64's staple wool at \$1.04 to \$1.09. The market for goods in this country remains unsettled, mills are on reduced schedules and using their old stocks of wool or buying in small lots only. The change in the attitude of labor indicated by acceptance of wage cuts of 15 to 20 per cent rather than a shut-down is helpful. Quotations in this country are still nominal.

BUTTER

Extreme weakness and sharp declines in undergrades cover the butter market the past week except on Saturday, when an advance of two cents took place. Fancy butter held its own fairly well as it has done all through the year because of scarcity. Dealers had to work hard to make every sale and owners and shippers suffered heavy losses. Buyers were afraid of the market and some lots had to be stored because they were unsalable. Next to storage butter, centralized cars declined most, falling from 52c last Friday at Chicago to 47c this week. Storage extras sold as low as 52c at Chicago. Closing prices on 92

score were as follows: Chicago 56c; New York 57c; Boston 56c; Philadelphia 57c.

APPLES

The apple markets are glutted with shipments of around 1,200 cars per day. Prices are 20 per cent below last year but the movement into storage is slower than usual and the consuming public is unable to absorb all the offerings for immediate use. The decline continues and operators are uneasy over the outlook. The government's October 1 report showed storage holdings only about half as large as a year ago although the barrel crop is much larger.

DETROIT CITY MARKET

Although supplies were light early this week, trading on the municipal markets was slow. Apples sales were made all the way from 50c@52 per bushel; cabbage 40@75c; onions \$1; parsnips \$1@1.25; potatoes \$1.17½@1.35; tomatoes \$1.75@3 per bushel.

NEWS OF THE WEEK.

(Continued from page 526).

Thursday, October 21.

THE Japanese foreign office and cabinet are not disposed to submit the equality question to the League of Nations.—American bankers pledge themselves to form a \$100,000,000 export corporation.—Further declines are noted in lumber prices.

Friday, October 22.

THE industrial situation in England is perplexed as to the extent that labor leaders are losing control of the workers in the present strike and as to whether an appeal will be made for an election over the miners' dispute.—An explosion in a coal mine at Long-Shan, China, kills 400 persons.—Soviet Russia sends ultimatum to Armenia demanding permission to transport Soviet and Allied troops across Armenia.

Saturday, October 23.

CONFERENCES between the English government and mine leaders continue.—Five thousand immigrants from Malta have arrived in Detroit since January 1.—Although Michigan's population gained 850,000 during the past ten years, forty-seven of her eighty-three counties show declines.

Sunday, October 24.

FEAR is expressed that the English coal miners may be aided in their strike by the railway and transport workers.—The slackening of industrial demand is given as a cause for reducing the price of steam coal over one dollar per ton.—Shoe wholesalers predict further reductions in shoe prices.—United States and Argentine sign a commercial treaty.

Monday, October 25.

PROGRESS toward a settlement of the English coal miners' strike is reported.—The prices for grapes advance notwithstanding the bumper crop produced this year.—Government officials anticipate that the present Soviet rule of Russia will be replaced by a united states of Russia.

Tuesday, October 26.

NO decision on the English coal strike situation has been reached and prolonged consideration of the government's new order is being given by the miners' executive officers.—King Alexander of Greece dies of wounds caused by the bite of a tame monkey said to have been inoculated with rabies germs by enemies of the ruler.—The provinces of Manitoba, Alberta, and Saskatchewan vote dry by heavy majorities.

COMING LIVE STOCK SALES.

Poland China—October 26-30. Central Michigan Poland China Breeders' Association. See advertisement for dates and locations.
Holsteins.—November 5. C. R. Woolger Estate, Wayne, Michigan.
Poland China.—November 9. Wm. J. Clarke, Eaton Rapids, Michigan.
Shorthorns and Shropshires.—November 10. B. D. Kelly & Son, Ypsilanti, Michigan.
Poland Chinas.—November 10. W. B. Ramsdell, Hanover, Michigan.
Herefords.—November 18. Potter & Harwood, Charlotte, Michigan.

Live Stock Market Service

DETROIT

Cattle.

Canners, bulls and fat cows steady; other grades 25c higher.

Best heavy steers	.....	\$11.00@11.50
Best handy wt bu steers	.....	9.50@10.25
Mixed steers and heifers	.....	8.00@ 9.25
Handy light butchers	.....	7.75@ 8.25
Light butchers	.....	5.25@ 7.75
Best cows	.....	7.00@ 8.00
Butcher cows	.....	6.00@ 6.75
Common cows	.....	3.75@ 4.00
Canners	.....	3.00@ 3.50
Choice bulls	.....	7.00
Bologna bulls	.....	6.00@ 6.50
Stock bulls	.....	4.50@ 5.25
Feeders	.....	7.50@ 9.25
Stockers	.....	6.25@ 7.75
Milkers and springers	.....	\$ 65@ 110

Veal Calves.

Market steady.
Best \$15.00@15.50
Others 5.00@13.00

Hogs.

Market 25c higher.
Mixed hogs \$13.00
Pigs and yorkers 13.25

Sheep and Lambs.

Market dull on account of lambs being very wet.

Best lambs	.....	\$12.50@12.75
Fair lambs	.....	9.50@11.00
Light to common	.....	5.00@ 8.00
Fair to good sheep	.....	4.50@ 5.00
Culls and common	.....	2.00@ 3.00

CHICAGO

Hogs.

Estimated receipts today are 12,000; holdover 6,738. Market slow, mostly 15@25c higher. Bulk of sales \$12.50@13.25; tops \$13.50; heavy 250 lbs up medium, good and choice at \$12.50@13.40; medium 200 to 250 lbs medium, good and choice \$12.90@13.40; light 150 to 200 lbs common, medium, good and choice \$12.50@13.35; light lights 130 to 150 lbs common, medium, good and choice \$12.50@13; heavy packing sows 250 lbs up, smooth \$12.25@12.50; packing sows 200 lbs up rough \$12@12.25; pigs 130 lbs down medium, good and choice \$12.25@13.50.

Cattle.

Estimated receipts today are 11,000.

Market slow, steady to strong. Beef steers medium and heavy weight 1100 lbs up choice and prime \$17@18; do medium and good \$12.50@16.75; do common \$9@12; light weight 1100 lbs down good and choice \$15@17.75; do common and medium at \$8.25@14.50; butcher cattle, heifers, common, medium, good and choice \$5.25@13; cows common, medium, good and choice at \$4.75@10.75; bulls, bologna and beef \$5@10.50; canners and cutters, cows and heifers at \$3.50@4.50; do canner steers \$4.25@6.25; veal calves, light and handyweight, medium, good and choice at \$11.50@13.50; feeder steers common, medium, good and choice at \$7.75@11.75; stocker steers common, medium, good and choice at \$4.50@9; stocker cows and heifers, common, medium, good and choice \$4.25@7.75; western range cattle beef steers, medium, good and choice at \$8.50@13.65; do cows and heifers medium, good and choice \$6.25@9.25.

Sheep and Lambs.

Estimated receipts today are 17,000. Market strong at Tuesday's close and 50@75c higher than yesterday's early price. Lambs 84 lbs down, medium, good, choice and prime \$11@13.50; do culls and common \$9@10.50; spring lambs medium, good, choice and prime \$9.75@11.50; ewes, medium, good and choice \$5.50@7; ewes, cull and common \$2.50@5.50; breeding ewes, full mouths to yearlings \$5.50@8.50; yearling wethers medium, good and choice \$11.50@12.

BUFFALO

Cattle.

Market active and steady. Prime steers and shipping steers at \$13.50@16.50; butchers \$8.50@13; yearlings at \$15.50@17; heifers \$6@11; cows \$2.50@9.50; bulls \$5@9; stockers and feeders \$5.50@9; fresh cows and springers \$60@120. Calves.—Market is steady at \$5@16.

Hogs.

Market higher on all grades. Heavy and yorkers \$14; a few at \$14.25.

Sheep and Lambs.

Market steady. Lambs \$14; yearlings \$6@9.50; wethers \$6.50@7; ewes \$3@6; sheep \$6@6.50.

Elevator Exchange Opens

(Continued from page 526).

worth of business last year, or an average of \$447,250.

The total capacity of nineteen of these elevators is 370,000 bushels, an average of 19,473.

Elevator memberships vary greatly. Sixteen of the elevators were found to have 4,246 members, or an average of two hundred and sixty-five.

Three of these elevators are new and could not be included in the above figures as to business of last year. Fifteen of them own their own storage building and the Caledonia and Albion Cooperative Associations each own two elevators. The Hastings association is building at the present time. Ypsilanti association expects to build.

The members of the elevator exchange are: Union City Cooperative Company; Caledonia Farmers' Elevator Company; Coopersville Cooperative Elevator Company; Fowlerville Farmers' Cooperative Association; Four Counties' Cooperative Association; Sebawaing Cooperative Association; Mason County Cooperative Marketing Association; Albion Farmers' Elevator Company; Ypsilanti Farm Bureau Association; Decatur Cooperative Association; Dowagiac Farmers' Cooperative Association; Parma Cooperative Elevator Company; Farmers' Cooperative Elevator, Fowler; Hastings Cooperative Elevator Association; Woodland Farm Bureau Exchange; Square Deal Cooperative Elevator Association; Romulus Farm Bureau Association; Rockford Cooperative Elevator Association; Allegan Farm Bureau Association; Coldwater Cooperative Company; Holland Cooperative Association; Tri-State Cooperative Association.

It has taken seven months to bring about the organization of the elevator exchange. The first meeting was held at Saginaw, March 30, where one hundred and fifty men interested in the cooperative buying and selling of grain collected to consider ways and means of forming a state exchange. James Nicol, of the State Farm Bureau, was chairman and C. A. Bingham was acting secretary. The following committee of seven was appointed to draw up plans for the establishment of an exchange: E. B. Hutchinson, Caledonia; W. A. Young, Albion; C. W. Benjamin, Bellevue; J. F. Leech, Chesaning; H. W. Ellis, Albion; James Nicol, of South Haven. Hale Tennant, M. A. C., and Dorr D. Buell, general manager and first president of the Michigan Potato Growers' Exchange, were asked to meet with the committee. At an evening session a constitution and by-laws, drawn up by this committee, were discussed and, after everybody had a pretty clear idea of the nature of the organization they were starting, final action was deferred until a later meeting when the delegates would come empowered to act.

The actual organization of the exchange took place at the next meeting June 29-30, at the M. A. C. One hundred representatives were present, seventy-six with credentials from farmers' stock companies or cooperative elevators. When it came to endorsement of the principles of the newly born exchange, it was found that only forty-three had power to act. The plan to make the exchange a separate corporation was changed at this meeting to that of a department of the State Farm Bureau. The constitution discussed at the previous meeting was adopted in the form of rules and regulations. The representatives of the forty-three elevators elected the following board of control: M. S. Shisler, L. Whitney Watkins, Carl Martin, Jacob Landis, Waldo Phillips.

The State Farm Bureau appointed

as its two members on the board Jas. Nicol and Dorr D. Buell.

The board of control held a preliminary meeting on July 8, at which three important motions were carried: that the membership of the elevators sell their grains and beans through the exchange, that they be given the option on contracting to sell their hay and straw.

At an organization meeting on July 28, James Nicol was elected chairman of the board and Dorr D. Buell, secretary and business manager. A contract was adopted and offered to the local association for signature.

At the August 13 meeting of the board, Joseph Wickens, a man of considerable experience in grain buying was hired as salesman. Dorr D. Buell died and at the September 12 meeting his brother Thomas, who had been in charge of the development of the elevator exchange plans and at the same time acting as manager of the marketing department of the State Farm Bureau, was elected secretary and business manager. A provision was made at the meeting whereby small associations whose volume of business did not exceed ten cars per year could sell through the exchange. The plan provides that the memberships of small associations sign a contract and comply with the rules and regulations and that their only immediate expense shall be \$10 per car added to the regular handling charge. When that fee aggregates the membership fee paid by all elevator memberships to the exchange, they will be granted full membership.

Thomas B. Buell, secretary and manager of the exchange department, is well known to the farmers of this state, both through his own activities in farm organization matters and through his association with his brother, Dorr, who was an acknowledged leader in farm organization.

Thomas Buell was born on July 30, 1880, on a farm near Union City, which had remained in the possession of the family since 1836, having been secured direct from the government. He attended high school in Union City, where he graduated as valedictorian in 1897. In 1902 he completed a literary and business course at the University of Michigan. He also took two years' post graduate work in economics and business administration. The summer of 1900 was spent in travel in Europe. In the last few years he has had experience with several enterprises, among them work in the office of the Peabody Coal Company, of Chicago. In 1906 he married and began farming on the home farm near Union City, where his main interests have been centered until this summer, when he came to the State Farm Bureau. Buell has intimate knowledge of cooperative problems, a broad technical education and an experience of many years in active farming.

The board of control of the exchange was elected from among the most experienced, capable and conscientious farmers of the state. James Nicol, chairman of the board, is one of the first organizers and a member of the board of directors of the South Haven Fruit Exchange, the most successful of the kind organized in the state, one which has been able to sell apples at premium prices. Before coming to Michigan, Nicol had twenty years' experience in the grain business in Chicago. Nicol is president of the Allegan County Farm Bureau.

M. S. Shisler is a business farmer of Kent county, who represented that county at the annual meeting of the State Farm Bureau. He was one of the organizers and the first president of the Caledonia Elevator Association, one of the most successful in the state.

Carl Martin, of Coldwater, is best known through his feat of building the Coldwater Cooperative Company from a loose organization to a business of a million dollars. He has had experience in the Branch County Savings Bank, and holds the good will of thousands of farmers.

As member of the board of supervisors of Van Buren county, Waldo Phillips, introduced more beneficial resolutions than any other supervisor in the history of the county. He is president and manager of the Decatur Cooperative Elevator, a corporation which does all the elevator business of that territory and operates a flour mill in addition. Also he is president of the Van Buren County Farm Bureau.

Jacob Landis is best known for the reason that he conducted the business of the Stockwell Cooperative Association, one of the largest in northern Michigan with the greatest economy of any association in the exchange. A report of the auditors shows that he conducted the business on a cost of one and one-fourth per cent. Landis also operates one of the largest farms in Mason county.

Whitney Watkins is a member of the state board of agriculture, member of the board of directors of Manchester elevator and is interested in many large enterprises throughout the state. He operates a farm of two thousand acres in Jackson county.

MILK PRODUCERS' MEETING.

(Continued from page 539).

the leaders of our organization advise. Resolved, the Michigan Milk Producers' Association expresses its appreciation of the work of the milk inspectors and health boards in the several cities where milk is sold. It hereby pledges its cooperation in compliance with all regulations and ordinances and enjoins upon its membership a cheerful compliance with all these practices, rules, and ordinances.

Resolved, that it shall be the duty of the board of directors of the Michigan Milk Producers' Association to make frequent inquiries as to the financial ratings of all companies, firms, or persons to whom milk is to be sold.

Resolved further, that the selling agent of the Michigan Milk Producers' Association be required to secure adequate bonds from all firms, corporations, or persons whose financial ratings are not considered adequate by the board of directors.

Mrs. Stockman presented a resolution asking the endorsement of the organization of an appropriation by the legislature for a new Home Economics Building at M. A. C., which was also unanimously adopted.

Coffee at Wholesale Direct to Consumer

Buy your Coffee at wholesale prices direct from us parcel post paid. We offer our Old Colony Blend freshly roasted, at these low prices, which will prove the value of buying by mail.

3 lbs. for \$1.00
10 lb. for \$3.20
30 lbs. for \$9.30
60 lbs. for \$18.00

Order today, cup test it and if not pleased return it and we will refund your money. Send check or money order. State if you want it ground.

John E. King Coffee Co.

Importers and Roasters

226 Jefferson Ave., East
Dept. F Detroit, Mich.

Established 1879

Mr. POULTRY FARMER:

We make a specialty of White Henner Eggs and have created a profitable market for your eggs the year around. We pay the highest premium for your Henner Whites—We remit same day shipments arrive. Ship Often—Ship by Express

GEO. R. ELDRIDGE CO.

494-18th Street, Detroit, Mich.

Remember! We guarantee you satisfaction with every shipment

EGGS

We have a steady demand for fancy fresh eggs shipped direct to us by producers. Therefore, we are in a position to pay fancy prices for fine eggs.

CHEESE COMPANY, Detroit, Mich.

Holmes, Stuwé Co., 445 Riopelle St.

Commission Merchants. Dressed Beef, Hogs, calves, Poultry, Live & Dressed, Provisions, etc. Correspondence Solicited. Ref. Wayne County & Home Savings Bank, Bradstreet, Detroit, Mich. Cad. 2878

HAY

Ship to The Old Reliable House Daniel McCaffey's Sons, 623-625 Wabash Bldg., Pittsburg, Pa.

HOGS

Edgewood Hampshires

All bred gilts sold. Now booking orders for gilts bred for fall farrow, and pigs for pig club work only. Depew Head, Edgewood Farm, Marion, Ohio.

HAMPSHIRE spring boars and fall pigs at a bargain, book your order now for bred gilts. JOHN W. SNYDER, R. 4, St. Johns, Mich.

SHEEP.

Western Ewes --- Oxford Rams

Having contracted for five years, all our pasturage and stables we offer for sale any part or all of our breeding flock and sheep equipment, as follows: 300 breeding ewes; mostly two and three year old Westerns, heavy shearers of delicate combing wool. These ewes were especially selected for us by Mr. Klemans the sheep partner of Clay Robinson & Co. 16 Registered Oxford Field Rams, yearlings, two and three. Canadian and American bred. 5 Registered Oxford yearling ewes. 22 Combination feed troughs and Hayracks. Make an alley between pens floating, board, raised and lowered by lever keeps sheep away while fed or hay is placed. 1 Little Wonder power sheep shearing machine with two arms and three shears, and electric (1h) motor, everything complete. Wool box. No better outfit in the state. Bargain for man who wants sheep and all. Can be seen at farm adjoining St. Clair.

Out this ad. out. Ad. will not appear again.

T. F. B. Sothern, St. Clair, Mich.

Delaune Rams B. & C. type, having size, quality, best of breeding, priced to sell, write. S. H. SANDERS, R. 2, Ashtabula, O.

FOR SALE Registered Delaine Rams, also 35 ewes. GEHRINGER & WRIGGLESWORTH, Cohoctah, Mich.

WHITTUM FARM SHROPSHIRE

A fine lot of imported and home bred yearling ewes and rams for sale. A fine chance to start a new flock or improve the old one call at the farm or write for just what you want.

C. H. WHITTUM, Eaton Rapids, Mich.

Hillcrest Shropshires

A nice lot of Ewes and Rams of all ages our flock is headed by McKerrrow 3164 a son of Senator Bibby write or call on.

R. J. & C. A. WILLIAMS, Middleville, Mich.

FOR SALE 35 Registered Shropshire yearling rams and ram lambs. Also some choice Duroc Jersey boars and gilts. CLIFFORD MIDDLETON, Clayton, Mich.

Shropshires Am offering one choice two year ram and a few good yearlings. C. J. THOMPSON, Rockford, Mich.

SHROPSHIRE Yearling and lamb rams sired by Imp. Berry No. 163 for sale. Also a few ewes. ARTHUR DODDS, Lapeer, Michigan

Shropshires sire imported Minton Ram Lambs \$20, some ewes, 2 yearling rams. DAN BOOHER, R. 4, Ewart, Mich.

Shropshires yearling Rams that have size and type for sale. ARMSTRONG BROS., R. 3, Fowlerville, Mich.

Shropshire Rams lambs, yearlings and one 2 yrs. old, priced right. CARL TOPLIFF, Eaton Rapids, Mich.

Shropshires Yearling and rams, with quality, from imported stock. W. B. McQUILLAN, R. 7, Howell, Mich.

Shropshires yearling rams. Ewes of all ages. Priced right. W. B. KELLY, Ypsilanti, Mich.

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

Registered Shropshire Rams and ewes all ages for sale. Well-wooled with size and quality. Priced to sell. H. F. Mouser, R. 6, Ithaca, Mich.

Maple Lawn Farm Shropshires, rams and ram lambs of choice breeding. Wool from nose to toes. A. E. Bacon & Son, Sheridan, Mich.

Registered Shropshire Ewes and rams. Jno. Grieve, R. 3, Fowlerville, Mich.

Shropshire yearling rams. Sired by Broughton ram. Good enough to head any flock. Priced reasonable. C. R. Leland, Phone 7152F5, R. 5, Ann Arbor, Mich.

Registered Hampshires

Rams and ewes, all ages. Priced to close out entire flock. W. W. CASLER, Ovid, Mich.

Want a Sheep? Let American Hampshire Sheep Association send you dandy booklet with list of breeders. Write COMFORT A. TYLER, 22 Woodland Ave., Detroit, Mich.

For Sale. Registered Hampshire yearling rams and ram lambs. Yearlings weigh 175 lbs. price \$40.00. Lambs weigh 120 price \$30.00. OTTO C. KNOB, R. R. 3, Monroe, Mich.

Registered Hampshire Rams ready to ship. 40 yearlings, 20 ram lambs also a few good ewes. A. M. Welch & Sons, J. B. Welch, Manager, Ionia, Mich.

Reg. Hampshire Down ram lambs, one registered R. Shorthorn bull calf, 9 mo., spring and fall farrowed Berkshire pig. M. G. Mosher & Sons, Osseo, Mich.

Oxford Rams yearling and ram lambs and O. I. C. boars. Stock registered. H. W. MANN, R. 1, Dansville, Mich.

OXFORD RAM choice yearling Reg. and delivered for \$50. O. E. BARKER, R. 1, Belmont, Mich.

For Sale Oxford ram lambs registered and delivered \$25.00. Guaranteed. GEO. T. ABBOTT, Palm, Mich.

FOR Sale Ootswald, Lincoln, Tunis, Shropshire rams 1 year \$25, ram lambs \$20, all recorded papers with each when sold. L. R. KUNY, Adrian, Mich.

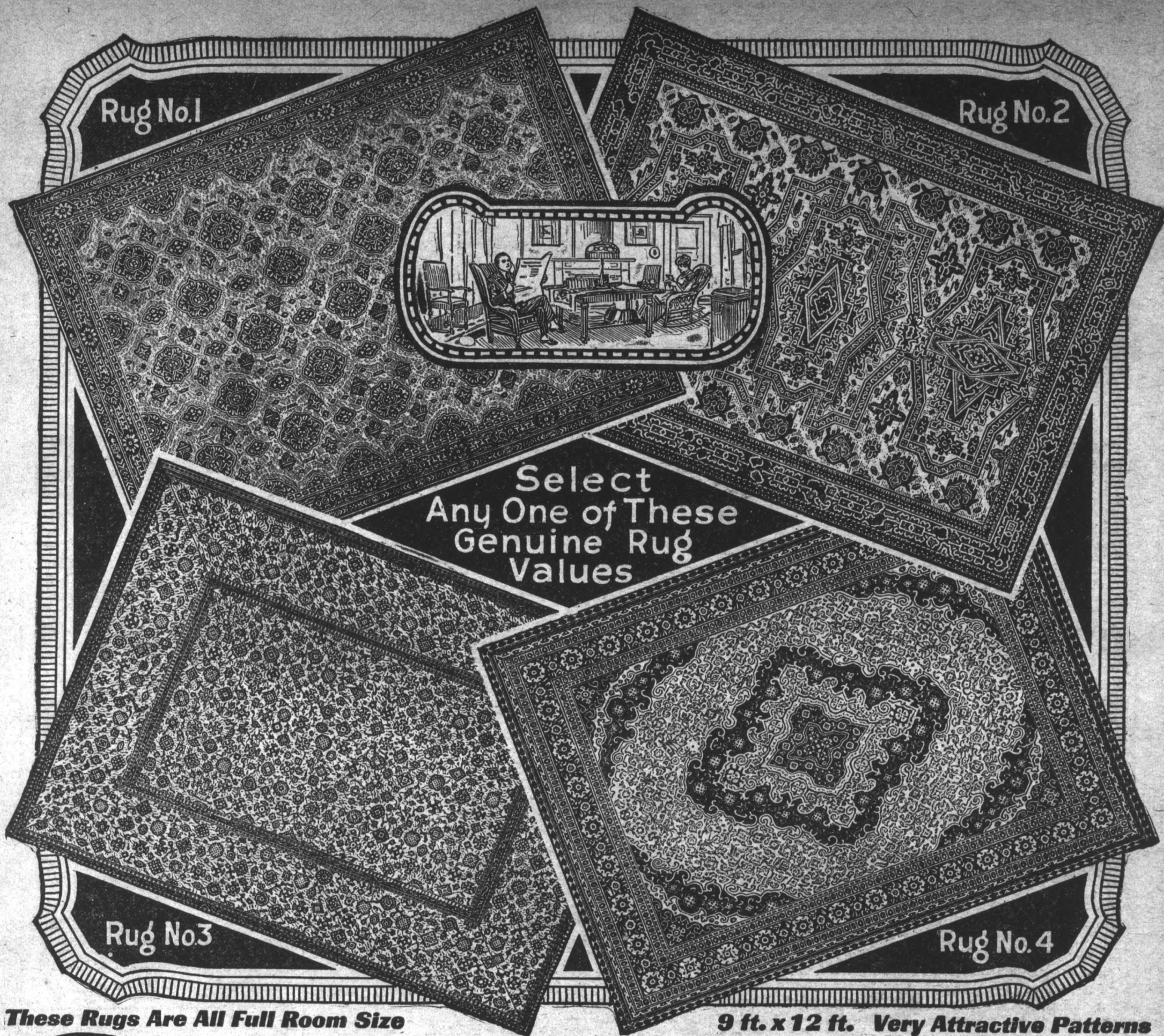
Registered Rambouillet Rams. For sale. Good bone and covering. J. M. EAGER, Howell, Mich.

HORSES

BAY MARE

For Sale, sound and right in every way, weight about 850 lbs. Must be sold at once come and see her or write L. J. Hamlin, 496 Huribut Ave., Detroit, Mich.

Percheron Stallions and mares at reasonable prices; inspection invited. F. L. KING & SON, Charlotte, Mich.



These Rugs Are All Full Room Size

9 ft. x 12 ft. Very Attractive Patterns

Send Only

Send only one dollar for any one of the four wonderful rug bargains shown above for 30 days' trial in your home. If after a month's actual use of the rug you select, you are not delighted with the remarkable value and thoroughly satisfied to keep it at our low money-saving price, return it to us and we will not only refund your dollar, but will also pay transportation charges both ways. If you decide to buy rug, take nearly a year to pay—a little each month that you'll hardly miss.

Amazing Rug Bargains

It is practically impossible to do justice to these extremely handsome and attractive rugs by mere descriptions and cold black and white illustrations such as shown above. The ornamental design, luxuriant texture and rich colorings must be seen to be fully appreciated. That's why we offer to send your choice of any of these four beautiful rugs for 30 days' use in your home. Read the descriptions carefully, then make your choice for the 30-day trial test at our risk.

Rug No. 1 Genuine Gold Seal, one-piece, seamless, Congoleum Art Rug. The name Congoleum is in floor coverings a positive standard of quality. This rug is guaranteed by Hartman as first grade Congoleum. Very sanitary. Contains no burlap. Water will not injure it. Damp mop keeps it clean and bright. Durable and wear-resisting. Lies flat without fastening. Sun and storm-proof. Wonderful rug for dining room, kitchen, sun porch, etc. The Gold Seal is pasted on its face as visible evidence that it is genuine, and name Congoleum is stamped on back. Comes in 9x12 foot size.
Order by No. 51BBMA45. Price \$19. Send \$1 now. Balance \$2 monthly.

Rug No. 2 A splendid reversible standard size, 9 x 12 ft. wool and fibre rug made of carefully selected vegetable fibre and wool, woven into a rarely artistic oriental pattern of unusually rich coloring. We gladly give you the opportunity to see and test this wonderful rug bargain on your floor for 30 days at our risk, because we feel sure you will be delighted to keep it when you fully realize its merits.
Order by No. 17BBMA20. Price \$23.65. Send only \$1.00 now; balance \$2.50 monthly.

Rug No. 3 Here is a decidedly exceptional value in a full size, 9x12 ft. Tapestry Brussels Rug with mitered corners in an unusually attractive pattern. An extra serviceable floor covering that will give splendid wear and make a handsome appearance in any room.
Order by No. 22BBMA8. Price \$28.95. \$1 now; balance \$2.75 monthly.

Rug No. 4 A magnificent Medallion Pattern Tapestry Brussels Rug woven to give service. Just think of the low price at which we offer this handsome tapestry Brussels rug. The combination of the colorings blends most charmingly, and the design into which it is woven gives it a very attractive appearance, as illustration plainly shows. The medallion center is very rich and pleasing, as is the neatly arranged, conservative border. It is closely woven and the yarns used in the making are selected for their wearing qualities. Made in 9 ft. x 12 ft. size and guaranteed to give you absolute satisfaction.
Order by No. 22BBMA17. Price \$29.85. Send only \$1 now; balance \$2.75 monthly.

Nearly Full Year to Pay

When you see any of these rugs on your floor, and study the splendid quality, ornate pattern and beautiful color scheme, you will be delighted. And when you compare it with other rugs selling at much higher prices, you will wonder how we can give such stunning values on such liberal credit terms. For we not only send the rug you select for only \$1, giving you the use of it for 30 days, at our own risk, but we will also give you nearly a full year to pay, if you decide to keep it. This is your opportunity to buy just the rug you have longed for at a substantial money saving. Fill out and mail coupon today!

FREE Bargain Catalog

432 pages—mail us a postal for this great book—it will save you many dollars. Filled from cover to cover with stunning bargains in furniture, linoleum, rugs, stoves, ranges, watches, silverware, dishes, washing machines, sewing machines, aluminum ware, phonographs, gas engines, cream separators, etc. Hundreds of articles to select from—30 days' trial on anything you send for. See how conveniently you can buy from Hartman's. This wonderful bargain catalog is FREE. Post card or letter brings it.

THE HARTMAN CO.

3900 LA SALLE STREET
Dept. 2979 CHICAGO

Copyrighted, 1920, by Hartman's, Chicago.

Big
Bargain
Book
Free



THE HARTMAN CO.

3900 LaSalle St. Dept. 2979 Chicago

Enclosed is \$1.00. Send the Rug marked X below. I am to have 30 days' trial. If not satisfied, I will ship it back and you will refund my \$1.00 and pay transportation both ways. If I keep it I will pay the amount named each month until full price is paid.

- ☐ Rug No. 51BBMA45. Price \$19.00. \$1.00 down; balance \$2.00 monthly.
- ☐ Rug No. 17BBMA20. Price \$23.65. \$1.00 down; balance \$2.50 monthly.
- ☐ Rug No. 22BBMA8. Price \$28.95. \$1.00 down; balance \$2.75 monthly.
- ☐ Rug No. 22BBMA17. Price \$29.85. \$1.00 down; balance \$2.75 monthly.

Name _____
Address _____
City _____ State _____