

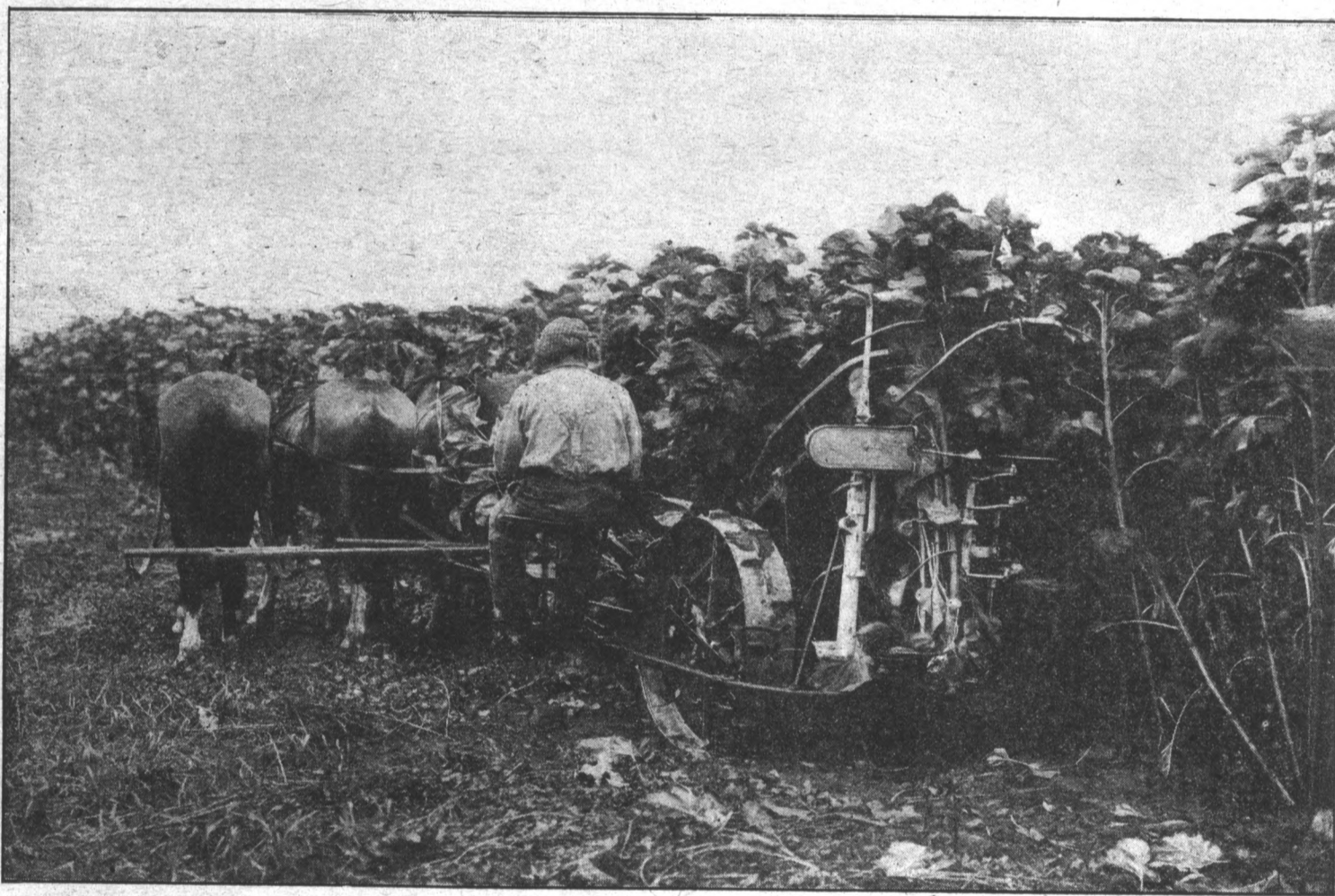
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Fighting Quack Grass Without a Hoe

By John R. Rood

ONE of the farmer's problems is to get a crop that he wants, avoid a crop that he does not want, and get out on the right side of the ledger. One of the methods of getting rid of such pests as Canada thistles and quack-grass that has been suggested is to put a cement pavement over the place and keep it there for a few years, or a cheaper substitute cover the land with tarred paper till the existing plants are smothered out, all of which seems paying too much, assuming that the desired result could be obtained.

Another method, not involving much use of the hoe, and which looks good on paper, however it might work out in practice, has been suggested, viz., to seed the plat to alfalfa and crop the alfalfa till the weeds are choked out. If that would work it would seem hard to beat; but, like the story of the Swede who wanted his chum to jump from the dock to the ferry, and suggested that he

might make it in a couple of jumps, there might be an initial difficulty in getting the stand of alfalfa.

Perhaps such suggestions may look like the cogitations of a man too lazy to work, hunting for some easy way; but if such men really find the easy way they are public benefactors. If they fail they are called dreamers. We judge by the results. Fact is, to be honest, none of us care to do work for nothing.

But to get back to the subject, we all start out in the spring, hoe in hand, or with some more effective instrument, resolved to keep the land clean this year. But by the time the days get hot and the weeds come fast, they begin to get the better of us, and soon the battle is lost again for us and won by the weeds. No one feels this difficulty

more than the mail-order farmer, who is compelled by force of circumstances to accept such results as he can get from others. But even for the man on the job it is no easy trick. To any who are interested in getting results of this kind, the following experience is recited:

Last spring we decided to put in some sun-flowers for silage on a plat that had quite a patch of solid quack-grass on it; and by such cultivation as could be obtained we tried to hold the quack back till the sun-flowers got going, and it looked for a while like a losing game; but fighting one weed with a more vigorous and thrifty one is pretty good logic, and surely the reader will admit that the sun-flower is a hustler. Well, pretty soon the sun-flowers were reaching up higher than the quack could; and unlike corn the broad leaves of the sun-flowers left no spaces between the sunlight to get down to where the

(Continued on page 283).



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CURRENT COMMENT

Observe Memory Day

EVERY reader of the Michigan Farmer should be thoroughly familiar with the aim and object of Memory Day, established through the untiring efforts of Mr. J. T. Daniels, of Clinton county. Years ago he conceived the idea of making September 30 of each year a day set apart for the improvement of rural cemeteries and the decoration of the graves of departed friends, just as Memorial Day is set apart for the remembrance and honor of the nation's soldier dead. His efforts were given early indorsement by the State Association of Farmers' Clubs, and the State Grange, and later legislative and gubernatorial recognition, while the press has annually disseminated general information regarding the growth of the Memory Day movement.

Each year Mr. Daniells has secured a poem from the pen of some gifted writer, fittingly expressing the Memory Day sentiment, for convenient use in the conduct of public exercises in observance of the day. The poem this year will be found on page 282 of this issue. Memory Day songs set to appropriate music have also been written at his request, and published in this and other papers of wide circulation in the state.

This movement is worthy of the thoughtful attention of every Michigan Farmer reader. Every one of us will be the better for a day spent in honoring the memory of our departed friends and in beautifying their last resting places. Let us help to make Memory Day the generally established and observed event in the life of every rural community for which its founder hopes and which its aim and object merits.

Over the Line Fence

TOO often the line fence is a source of difficulty between neighbors. In too few cases is our gaze cast over the line fence to study our neighbor's methods and results as a means of bettering our own. In too many cases where our neighbors are more successful with their crops than we, it arouses our enmity and jealousy rather than our curiosity, and we are inclined to condole ourselves upon our "bad luck" rather than to carefully investigate the cause of his better success under similar conditions, and thus miss entirely the

benefit of an object lesson which should be helpful to us in improving our own farming practice.

It is a peculiarity of human nature that most of us are inclined to give closer attention to the distant object lesson and the explanation of a successful stranger than to the one which might be available just over the line fence, although as a matter of fact it probably would not be nearly as valuable to us or as applicable to our own case, owing to the greater difference in soil and climatic conditions which may have contributed to the success or failure as the case may be. The distant object lesson is, of course, interesting and its study should not be neglected if it has any possible bearing on our own business, but the lessons which are everywhere to be learned just over the line fence or in the immediate community are still more important and of greater value to each and every one of us.

This is the season of the year when those object lessons are most plentiful and when lessons back of them can best be learned. This is a period when economic methods are more than ordinarily important and in which we cannot afford to neglect any known or established factor of success. It will pay each and every one of us to cast an observing and inquiring eye over the line fence in search of the valuable lessons which the experiences of our neighbors hold for us. Such a course will furnish much valuable food for thought during the coming winter season, and will aid in planning a more successful farm campaign for next year.

Crops Show Improvement

FARMERS generally are feeling more optimistic over the outlook for the year's business than they felt during July and August when the drought was on. Recent weather conditions have favored

the maturing of crops, production costs are far below what they were in 1920 and prices show an upward tendency. As a result of these factors working together the season now promises to be one of substantial help to the agricultural classes, particularly in the diversified farming states such as Michigan.

Cash crops have made material improvement following recent rains, good growing temperatures and no frosts. The federal crop review indicated that one-half of the improvement in the potato crop for the country has occurred right here in Michigan. While early beans were light the late fields will give a fair yield of good quality beans. The sugar beet crop has developed a remarkable tonnage since the middle of August when the dry weather in many sections was beginning to check growth.

New seeding has made a big growth, especially in the central and northern counties, while the total clover seed crop is going to be fair—June clover prospects now being real promising.

Although the country's fruit crops are very short, it is noteworthy that more carloads of grapes, peaches and apples have left Michigan to date than were shipped out of the state at this time a year ago. This is due largely to the earliness of the season, but the growers are also being happily surprised at the yields since the trees, as usual during seasons of light crops, are producing larger individual fruits and thus swelling the total harvest beyond expectations. Truck crop and melon fields have produced heavily; however, some loss has resulted to the cabbage, melon and tomato growers by cracking, due to too rapid growth.

All these conditions, together with the abundant corn crop, the splendid pastures and the good third and, in some instances, fourth cuttings of alfalfa, are overcoming the handicap of a short hay crop and will give a new impetus to stock feeding and dairying.

Near East Relief Plans

FOR the first time the farmers of the country are to be given an opportunity to make a definite and recognized contribution for the relief of extreme suffering in the war-stricken countries of the Near East. In this far away land, from which sprang our most treasured ideals, a vast people have struggled for the maintenance of those ideals and endured constant hardships that have for long won for them the admiration of the enlightened world. For five long years these pastoral people have planted their grain as usual, but there have been no harvests. Marching troops have trampled down their grain. War has taken their strong men, until today their number is a hoarde of old and helpless refugees and a greater horde of orphaned children.

The consequent suffering has been relieved to some extent by the philanthropic efforts of the Near East Relief, a relief organization backed by many of this country's most prominent and public spirited men, officially recognized by congress and in which the cost of administration is limited to five per cent of the contributions. The efforts of this organization are almost wholly directed to the saving and rehabilitation of the thousands upon thousands of orphaned children in Armenia and other Near East countries. Tremendous as has been their efforts, and great as has been the results accomplished, the organization has found its present resources for the feeding of these starving children totally inadequate to the task in hand, and have appealed to the farmers of America for the gift of five million bushels of grain or its equivalent, to carry on

this humanitarian work. Michigan's quota for this purpose is 100,000 bushels of grain. Principally wheat and corn are needed.

For the purpose of working out feasible plans for the accumulation of this grain a number of Michigan men, well known in agricultural circles have been designated as an Emergency Grain Board of the General Committee of Near East Relief for Michigan as follows: Governor Alex J. Groesbeck, (ex-officio as honorary chairman of the state organization); H. H. Halladay, chairman, State Commissioner of Agriculture; James Nicol, President of Michigan State Farm Bureau; A. B. Cook, Master Michigan State Grange; Grant Slocum, President of The Gleaners; Alfred Allen, President Michigan State Association of Farmers' Clubs; Prof. David Friday, President-Elect Michigan Agricultural College; Frank B. Drees, Secretary Michigan Bean Jobbers' Association; L. Whitney Watkins, Manchester; Charles B. Scully, Almont; A. E. Illenden, Adrian; Forrest Lord, Editor Michigan Business Farmer; I. R. Waterbury, Editor Michigan Farmer.

The first meeting of this Emergency Grain Board was held at Watkins Farm, the historic home of Mr. and Mrs. L. Whitney Watkins last week. After formal organization in which H. H. Halladay was elected chairman of the board, Prof. David Friday, vice-chairman, and L. Whitney Watkins, secretary, these officers, together with Ex-Lieutenant Governor Luren D. Dickinson, chairman of the General Committee for Michigan, and the directors of the Michigan organization were constituted an executive committee. (Continued on page 299).

News of the Week

Wednesday, September 14.

POISONOUS gas, that was being used to fumigate a house, killed a seven-year-old girl in Detroit.—Lightning destroys two 35,000-barrel oil tanks in Kansas.—Germany is building a 500-passenger airship for passenger traffic between Germany and America.—The bureau of census states that Michigan is the second largest iron producing state in the Union.—The gold reserve of the United States has increased nearly a half billion dollars during the first eight months of this year. The United States practically has "a corner" on the world's available gold supply.—The value of live stock in this country has increased 126 per cent since 1909, according to the federal census.—Seventy-eight bodies have been recovered from the flooded district in southern Texas.

Thursday, September 15.

A NEW YORK boy, fifteen years old and weighing over 200 pounds, was sentenced to the industrial farm because he could not be stopped from stealing money for buying candy.—Four suicides are reported to the Detroit Police Department on Tuesday.—Live stock freight rates will drop on September 20.—The sale of \$100,000,000 worth of five and a half per cent twenty-year soldier bonus bonds will be started by the state on September 22.—An eighty-four-year-old woman in Chicago, known as "French Sal," died in want although she had \$100,000 worth of stocks hidden in her room.

Friday, September 16.

UBAIN LEDOUX, who auctioned off jobless men on the Boston Commons says he will auction off jobless women in New York.—Members of the American Association of Cemetery Superintendents say that Detroit is a good place in which to die because its cemeteries are so beautiful.—There is a national move on to suppress the "invisible empire" of the Ku Klux Klan.—An eighteen-year-old New Jersey boy, expert with gun and skeleton key, confessed to robbing eighty places "just for the fun."—Tiger, the pet cat of a New Jersey eccentric, was given burial in a costly copper casket after being embalmed. The cemetery authorities refused to allow it to be placed in vault with remains of wife.

Saturday, September 17.

MARY EDGERT, weighing about 260 pounds, appeared in court against Gottlieb Wanke, 140 pounds, for assault and battery. She lost her case.—A nineteen-year-old boy is given citizenship because he served as a soldier and got honorable discharge.—Three hundred additional men have been laid off by the Calumet & Hecla copper mines in the northern peninsula because of lack of orders.—The City of Quebec voted itself wet by an overwhelming majority.—The Bethlehem Steel Company makes an eight per cent reduction in wages.—Twin babies locked in valise, were found on a ferry boat between Detroit and Windsor.—Letvia and Esthonia are the latest countries to join the League of Nations.

Sunday, September 18.

A BOSTON man takes out an insurance policy for \$500 against unfavorable weather on his wedding day.—The post office department announces that regular mail service, including parcel post, is resumed to Russia.—Babe Ruth broke his home run record of last year when he hit his fifty-fifth homer in New York.—Premier Lloyd George has cancelled his invitation to the Irish delegates to a conference on September 20.—Chicago building workers, who were on strike, are returning to work.—The ban in Berlin on the French language has been lifted.—Cuban taxi drivers will make effective lower rates because they find they can cut existing charges one-third by substituting alcohol for gasoline as motor power.—Nearly twenty per cent of the income tax payers in the New York Federal Reserve district have defaulted in payment of their third installment.

Monday, September 19.

THREE hundred and twenty-five are indicted in the Mingo, West Virginia, mine war.—A bridegroom in Oswego, New York, bit off part of his tongue trying to dodge a shoe.—John Albright, eighty-nine years old, arrives at Menominee in hike from Philadelphia to Escanaba.—The Ford Motor Company will build a body plant at Iron Mountain, Michigan.—The latest thing in cow feed is hydrolyzed sawdust which is being shown at the National Exhibition of Chemical Industries. Feeding experiments in Wisconsin have proven its value.

Michigan's Banner Corn County

What the Staff Man Found in Old "Starving Gratiot"

YOU would not say that an elephant looks like a tree. Yet the blind man who carefully examined only the legs of one of these tropical monsters could not be otherwise convinced. And like this sightless man people generally get erroneous ideas of things where they have only fragmentary information. Naturally one who knows the habits of the corn plant would say that for Michigan, at least, the best corn counties would be found in the extreme southern portion of the state. But according to statistics, such is not the case. More corn is grown per township in a few of the central counties than on land farther to the south. It is about the farmers and the farms of one of these counties that this story is written.

Why have scores of industrious Illinois farmers sold their high-priced land in the sister state and moved upon farms in Gratiot county, Michigan? Perhaps they had good reasons for doing this. The following table on the average yield of corn for the past ten years in Illinois, Michigan and Gratiot county may have furnished a basis for this migration:

Year.	Illinois.	Michigan.	Gratiot.
1911	33	33	37.7
1912	40	34	42.6
1913	27	33.5	39.7
1914	29	36	38.6
1915	36	32	36.4
1916	29.5	27.5	30
1917	38	21.5	34
1918	35	30	38
1919	35	39	45
1920	34	40	44

These cold figures from the bureau of crop estimates of the United States Department of Agriculture are interesting. In only one instance did the yield in the great corn state of Illinois exceed the average in Gratiot county. That was in the year of 1917 when Michigan had the lightest crop during the ten-year period. The average yield for Illinois during this ten-year period was 33.7 bushels per acre. For Michigan it was 32.7, while for Gratiot county it was 38.6 bushels. But these careful corn belt farmers may have carried their investigations still farther. If they did so, they may have noted something like the following:

The winter wheat grown in Gratiot county in 1920 totalled 353,080 bushels, or an average yield of 18.2 bushels as compared with 15.2 for the state of Illinois for the same year. The same year Gratiot's oat crop which amounted to 1,349,020 bushels averaged within a half bushel of the acre average for Illinois which was 39½ bushels. Rye averaged higher in Gratiot county, as did also her hay crop. Neither the Michigan county nor Illinois specialize in the production of potatoes. However, the average was 115 bushels and sixty-five bushels respectively.

In addition to these staple crops, Gratiot is a leading county in the pro-

duction of white beans, not only in the United States, but throughout the world. Also the soil of this county was early recognized by the late Dr. Robert Kedzie, of the Michigan Agricultural College, as one peculiarly suited to the production of sugar beets and the experience of the past quarter century substantiates the good judgment of Michigan's pioneer leader in scientific agriculture.

Rotations Followed.

The rotation usually followed by these successful farmers is a short one. Sod ground is plowed and planted to some cultivated crop. The largest portion of this sod is devoted to

dence on our trips through the county. As to the present need of lime, it can be said that on the majority of soils no acid reaction is evident, and it is very easy to secure good stands of clover, alfalfa and other legumes.

In few sections of Michigan can greater enthusiasm for good seeds be found. These farmers are buying heavily of improved varieties of all crops in which they are interested. It is difficult to find a field of rye that is not of the Rosen variety. College Wonder, College Success and Wolverine oats are all popular. Pickett Yellow Dent, white cap varieties and ensilage corn are generally favored, while Red

drainage enables these men to get their crops into good seed-beds about as early as it is possible on higher land and then the plants usually have an adequate supply of moisture to carry them through to the harvest season.

Going After Pure-bred Live Stock.

As one travels through the various townships, he is impressed by the large number of young farmers who are going into the pure-bred live stock business. There is not a large number of old-time breeders. The hardwood forests and the big drainage enterprises were cared for by a generation of people, many of whom are still occupying the farms which they have wrested from nature. These men had little inclination to think of the development of pure-bred animals, but pioneering as the early settlers understood it is now past and we venture that there is no equal area of Michigan where one can find a larger percentage of farmers who are introducing into their herds pure-bred animals.

Just how these men feel over the introduction of good stock is shown by their attitude toward the purchase of animals last spring for Boys' and Girls' Club work. County Agent Cook sought to locate animals of fairly good breeding at moderate prices for the boys and girls, but the parents would not listen to the purchase of ordinary stock. They insisted on getting the best animals that could be found and were ready to pay the price. The writer has just received word from the 1921 Gratiot County Fair, and he understands that the quality of stock exhibited by the junior breeders of the county was the equal of, and, in many instances, superior to the animals exhibited by their elders.

It was our intention to give a brief statement on the achievements of the leading breeders of the county, but when we asked Mr. Cook for a brief list of such men he held up his hands stating, "While we do not have many old breeders, there is a long list of active, energetic farmers mostly of the younger generation who are going into the breeding business with a determination to make good. It would be unjust to mention a few of these breeders without taking perhaps fifty to seventy-five per cent of them into consideration. These young men usually have some money which they are spending judiciously for breeding stock, but when they find animals which are to their liking, prices do not seem to be a serious limitation." As a result of this attitude, Mr. Cook states that an unprecedented number of good breeding animals has been brought into the sixteen townships in the past few years.

A survey of the swine herds shows

Gratiot's Agricultural Agent

CLAYTON T. COOK, the progressive agricultural agent of Gratiot county, was born in Shiawassee county, April 11, in 1871. He attended the district school and entered the Agricultural College in his sixteenth year. The long winter vacations at the college were then in vogue, and Mr. Cook spent three winters teaching district school. He graduated from the M. A. C. in 1891. Following his graduation, he taught a full year in district school and another in the science department of the Flint High School, after which he attended and graduated from the University of Michigan law school in 1896. Throat trouble forced Mr. Cook upon his doctor's advice, to seek a change of climate. He spent four years in Georgia where he devoted his energy to the raising of peaches. Here he was also married. He returned to Shiawassee county in 1901 and has been a dirt farmer until entering the farm bureau work in 1920. He made a specialty of small fruits, one year harvesting twenty acres of strawberries. Nearly every winter he has fed one or more carloads of cattle or sheep. He has two boys. One is attending the Owosso High School and the other has completed two years at the M. A. C.

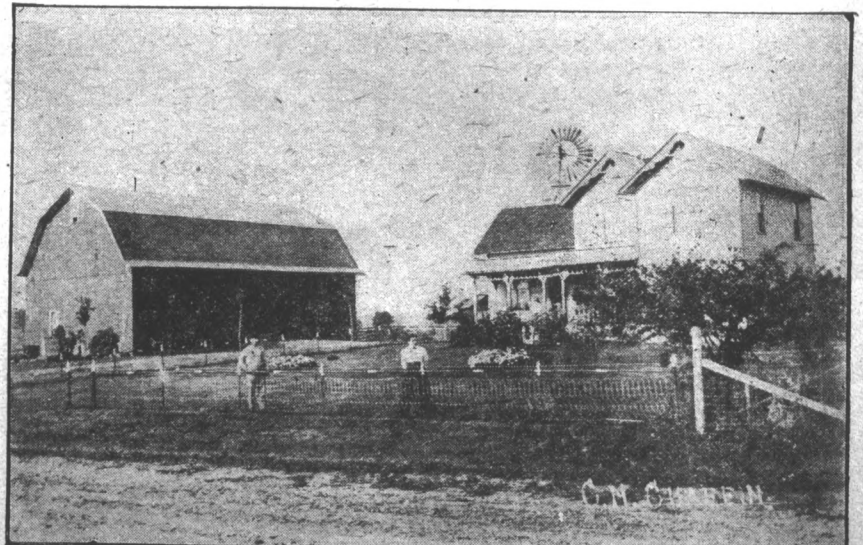
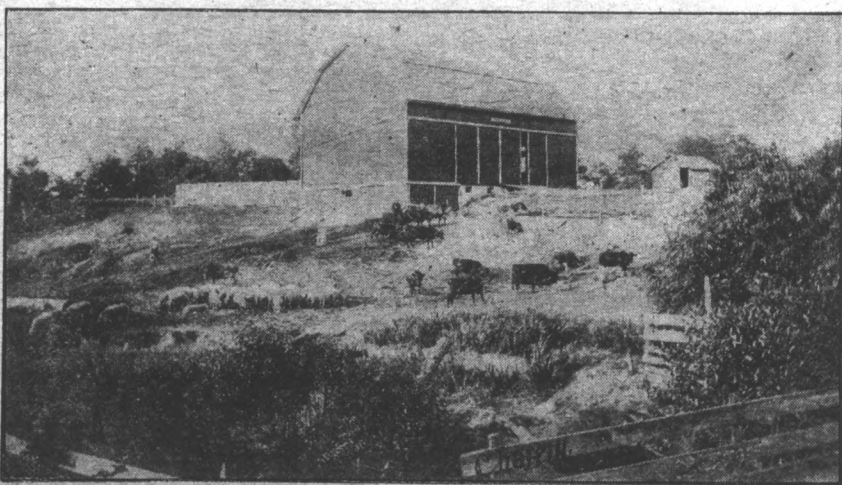


corn, and the remainder to beans, sugar beets, or potatoes. Occasionally beets are grown on the same land for two successive seasons, but this practice is not general. The cultivated land is plowed and sown to oats or barley the following spring. Many farmers seed with these spring grains, while others plow the oat or barley stubble under and sow the ground to wheat, which is seeded the following spring. Clover is the usual legume crop grown of which about thirty per cent of the acreage is alsike. Where farmers permit the seeding to stand two years, a mixture of clover and timothy is used.

While the natural fertilizing elements in the soils of this county were large, the farmers have been alert to the advantages of replenishing nature's supplies. They are now using considerable amounts of phosphates. Many convincing illustrations of the value of acid phosphates were in evi-

Rock wheat is gaining in the number of farmer advocates.

Drainage has been a big factor in the agricultural history of the county. Of the total area, 87.7 per cent is within organized drainage districts. Over one and a half million dollars have been expended in developing these extensive drainage enterprises. Large tracts of exceedingly fertile land have been added to the crop-producing territory as fast as drainage facilities were provided. Good outlets have encouraged tile drainage. It is now difficult to find a farm in this county where some tile has not been laid, although but few farms are completely under-drained. Probably as much drain tile has been purchased by Gratiot county farmers as by the farmers of any other county in the state. Under-



Live Stock on the Devareau Farm in Lafayette Township. Good Corn Land Makes the Future of Live Stock in the County Most Promising.

Substantial Farm Buildings of Clarence Dicken, of Newark Township. The Value of Gratiot County Farms Exceeds \$35,000,000.

that five of the sixty members of the Michigan Duroc Breeders' Association live in the county. Poland-Chinas, mostly of the larger type, are well represented, while several farmers are specializing in O. I. C.'s. Many pure-bred herds of swine are grown for pork only. Quite a number of Shorthorn cattle are raised and a few herds of Registered Angus are grazing on the luxuriant pastures of the county. Of the dairy breeds, Guernsey and Holsteins predominate, although a few fine herds of Jerseys have been developed. Generally speaking, a fine type of horse may now be seen on the farms in this section of Michigan, which was not formerly true. This change has come through the use of good sires, although an increasingly large number of registered mares are being introduced.

At different times in the past efforts have been made toward the development of efficient cooperative agencies. Many of the attempts failed here the same as in other parts of the state and of the country. However, it is probable that as large a proportion of the farm products of the county is sold through farmer-owned elevators and shipping associations as elsewhere in the state. The live stock shipping associations, a few of which have but recently started doing business, handled a half million dollars' worth of live stock last year.

The farmers' elevator at Ithaca did about \$700,000 worth of business. The directors of this elevator are: Theodore Bloss, R. A. Wood, B. L. Case, E. C. Brooks and Luther Carter. C. R. Aldrich is president, B. Melinger, vice-president, E. R. Redman, secretary,

Lee Townsend, treasurer, and C. W. Miller, manager.

The Breckenridge Farmers' Elevator Company disposed of about \$540,000 worth of business last year. The directors of this elevator are: John Young, J. S. Doyle, Frank Howland, Fred Greening, J. L. Smith, A. E. Sexton, A. L. Giles, F. A. Sexton and B. L. Case. M. W. Muscott is manager.

The directors of the Middleton Farmers' Elevator where \$125,000 worth of business was done last year are: R. C. Blank, J. A. Staley, J. D. Smith, E. H. Shinline, Edward Bohlen, Charles Wagner and W. G. Troub, with B. A. Pomeroy as manager. A cooperative creamery at St. Louis disposed of \$270,000 worth of dairy products the past season.

The Gratiot County Farm Bureau is working to correlate the various lines of agricultural work in the county, and under the capable direction of county agricultural manager, Clayton Cook, is succeeding in bringing the advantages of cooperative effort to a wider circle of farmers. Mr. Cook is supported in this work by a splendid board of real farmer directors. They are as follows:

Floyd Hines, president of the board, is a life-long resident of the county, a graduate of the Michigan Agricultural College, and a breeder of registered Holstein cattle. He is doing a general farming business and lives near Perinton.

J. M. Barnhart, vice-president, is one of the farmers who came to the county from Illinois. He is a university graduate, and like most men from the corn

belt, he has great faith in corn and hogs.

Enos Hawes, secretary and treasurer, is the youngest man on the committee. He is a graduate of the Alma High School and has taken a course at the Michigan Agricultural College. At present Mr. Hawes is operating the four-hundred-acre stock and grain farm upon which he was born.

A. A. Russell is a resident of Lafayette township. For four years he has served on the board of supervisors, previous to which he was township treasurer. He does a general farming business.

Harold Mouser has been a resident of Neward township nearly all his life and is a breeder of registered Shorthorn cattle and Shropshire sheep. With cattle and sheep as a specialty, Mr. Mouser is doing a general farm business. He is also a director of the county fair.

S. B. Clark has been a life-long farmer, and has lived in the immediate neighborhood of Alma for nearly twenty years. He took a business course at Alma College and is now in the dairy business, developing a nice herd of registered Guernseys. He is the treasurer of Arcadia township.

Wm. Schiff, of Elwell, has lived in Gratiot about ten years. He also migrated from Illinois. His principal farm products are sugar beets, corn, hay and live stock.

William Vanderbeek, supervisor of Bethany township, is a progressive farmer, raising principally sugar beets, live stock and grain. His long years of experience as a farmer, together with his travels in the south and west

make him a valuable addition to the executive board.

Club Work Developing.

The Boys' and Girls' Club work is being fostered by the farm bureau, and Mr. Cook is meeting with splendid response from the junior farmers of the county. Previous to the organization of the farm bureau, some work had been done along this line. Since Mr. Cook has taken hold of the work, one calf club and five pig clubs have been organized with an enrollment of fifty members. The calf club members are raising largely Holsteins, while the pig clubs are divided between Poland-Chinas and Duroc Jerseys.

The outlook for a permanent agricultural program in this county is most promising. The farmers are not boastful, but are generally conservative, thoughtful and hard-working men who are building good homes as well as good farms and are anxious that their children have every opportunity to prepare themselves to meet the demands of the world in the next generation. Curiously this county had the lowest percentage of illiteracy of any county in the state when the 1910 census was taken. Since then, considerable industrial activity has developed within the county and it is probable that the 1920 census figures will show an increase in the percentage of illiterates. This is a strong grange center, there now being ten active subordinate granges. These, together with several active gleaner arbors and farmers' Clubs, and a few real live community clubs, are making the county a good place for any one to live in by making it a good place for everybody to live.

LATE AGRICULTURAL NEWS

WOULD CHANGE RATES ON POTATOES.

SUSPENSION of the new potato tariff which increased the rates from Wisconsin and Minnesota and gave Michigan potato shippers a better deal on shipments to such points as Cincinnati has been ordered by the Interstate Commerce Commission, according to the State Farm Bureau Traffic Department. The tariff, intended to become effective August 25, has been postponed to December 23, 1921. In the meantime date for a hearing will be set. The Farm Bureau Traffic Department will be present to protect shippers in this state.

FACTORS AFFECTING PRICES.

CHAIRMAN Sydney Anderson, of Joint Commission of Agricultural Inquiry, concludes that "putting profiteers in jail will not solve the problem of the high cost of living. The consumer's price is a composite of thousands of prices. Prices would not be much reduced by taking ten, or even fifty per cent off the profits of the retailer, the wholesaler or producer. Something must come off of each of the thousands of costs of materials and services that go to make the price the consumer pays.

Farmers I meet in Washington are inclined to the belief that if Chairman Anderson's remarks represent the conclusions of the agricultural inquiry commission it has failed in its efforts to solve the mystery of the wide spread between what the producer receives and the consumer pays. They are of the opinion that cutting the profits of the retailer who charges from \$1.50 to \$2.00 for a commodity that costs him less than \$1.00, to the extent of fifty per cent would mean quite a reduction in prices to the consumer or a very agreeable addition to the price received by the producer. All agree, however, that one essential is

a better understanding on the part of everybody concerned of the problem itself, and a keener appreciation of his relation to that problem.

FARM BUREAU TO SELL CERTIFIED SEED POTATOES.

THIRTYFOUR out of thirty-five producers of certified seed potatoes, members of the Michigan Potato Producers' Association favored the Michigan State Farm Bureau seed department as a sales representative. The seed department is now preparing to add a seed potato distributing branch to its activities and will market the seed potatoes.

Bankers have placed the farm bureau seed department on their most favored list because of the business-like and prompt manner in which the department has discharged its obligations. Accordingly the department has been enabled to increase its warehouse advances on high quality seed to within a dollar or two of the market in many instances. Farm bureau growers in one entire county are consigning their salable seed.

During the fall season rush for seed, now about over, the farm bureau seed department handled for members about 800,000 pounds of seed in a period of a few weeks.

NEAR-EAST RELIEF CAMPAIGN.

ENDORSEMENT of the Michigan Near-East Relief Campaign was contained in a resolution and a motion adopted September 13 by the Michigan State Farm Bureau Executive Committee at its monthly meeting.

The Near-East relief drive was scheduled to be started in this state about mid-September. Nationally a campaign is planned for five and one-half million bushels of grain for the starving people of Armenia and Asia Minor, who are still suffering from the

ravages of the World War and persecution by the Turks. A new factor in the present Greco-Turk war has added to their misery. The Near-East Relief committee first faces the problem of saving 160,000 children from starvation. Michigan's quota in the drive is 100,000 bushels of grain. All farm organizations have been asked to assist in the drive. The State Farm Bureau's endorsement and appeal to its members is addressed to its local units, and follows:

"Whereas, the executive committee of the Michigan State Farm Bureau recognizes that the Near-East Relief campaign is a most worthy cause and merits the support of our members and of the farmers in Michigan, be it resolved:

"That the executive committee in meeting assembled in Lansing, September 13, 1921, hereby endorses the Near-East Relief campaign and requests the local cooperative organizations and County Farm Bureaus of the state to recommend that their members contribute such sums of money, grain or produce as their circumstances may permit, the cooperative organizations and the community farm bureaus to act as local agencies and to cooperate with their respective county farm bureaus in this campaign."

The Michigan campaign is to be under the guidance of James J. Spillane, of Detroit, Michigan director of Near-East Relief. Prominent representatives of all the farmer organizations in the state are to be active in putting the campaign across.

POTATO SEASON OPENS EARLY.

THE potato shipping season at Greenville and Cadillac opened three weeks early this year, chiefly as a result of the unprecedented demand for tubers and a generally advanced season. Opening prices were slightly

under expectations due to the offerings being green and shippers fearing the vegetable would heat en route when shipped in carlots. As riper potatoes began to move and orders continued to pile up, buyers advanced their bids to encourage growers to dig.

DAIRYING WILL ADVANCE.

ROY POTTS, specialist in marketing, of the dairy division of the United States Department of Agriculture, commenting on the dairy situation, said that if he were to predict the future of dairying he would place it on a somewhat higher range than that of general farm conditions. The dairy industry is more stable than other farm activities. Farmers are unable to expand or restrict their dairy operations as readily or as quickly as with some other lines of farming. It is not affected to so great an extent by foreign market conditions, and there is certain to be a steadily increasing demand for dairy products in this country. The cities are destined to consume larger quantities of milk as the nutritive and health-giving qualities of liquid milk become better understood by the average city resident.

EGG CONTAINER SPECIFICATIONS.

CHANGES in express classification, effective September 15, specify that hereafter all trays and dividing boards for egg shipments must be of hard calendar strawboard and shall not weigh less than three and a half pounds to the set instead of three pounds as formerly. In the future egg shipments must be noted on the express receipt as hatching eggs or market eggs.

The Grand Rapids & Indiana Railroad makes effective October 1 the stop-off-in-transit rule to complete the loading of live stock.

Doing Honor to Soy-beans

Farmers from Three States Study This Promising Crop

ON the Johnson farms in Williams county in northwestern Ohio, farmers from Ohio, Indiana and Michigan recently joined in paying tribute to the soy-bean. This crop has occupied the central place in the rotations followed by Mr. Johnson for the past fourteen years. The plant is grown for seed, as a source of protein for the feeding of hogs, for silage and for hay.

Seeking to demonstrate that a grain farm can be profitably maintained without the use of stable manure, Mr. Johnson has followed rotations which grow a legume on every field every season. Where the soy-beans are grown for seed the rotation consists of soy-beans, soy-beans, wheat or oats, sweet clover and corn. On one field where corn is growing which promises a yield of one hundred bushels per acre, the rotation is soy-beans, soy-beans and corn. Fertilizer is used generously, at least eight hundred pounds of acid phosphate per acre being applied in each rotation.

After ten years' experience in the use of soy-beans for hogs Mr. Johnson states that an acre of soys, and six acres of corn is superior as a hog feed to nine acres of corn alone. He plants the corn and beans separately because of convenience in planting and in cultivating. The variety which will ripen when the corn is ready to hog down should be used, since the hogs eat the ripened pods first. In one field five varieties were planted to demonstrate which are best suited to the latitude of Williams county for hogging down purposes. These varieties were: Manchú, Eltop, Black Eyebrow, Mammoth Yellow and Ito San. The Manchú seemed to be in the best condition while the Ito San and the Black Eyebrow followed closely. The other varieties were still very green, their growing season being longer than the average corn-growing season of this latitude.

Hogs are taught to eat soy-beans by confining them to the lots for a few days and feeding them nothing but beans. They are then turned into the beans and corn and the results have shown that no time is lost by the animals in getting started in pork production. The average acre of corn and soy-beans will support ten hogs for two months and good animals will make a daily gain of two pounds on this feed; hence an average acre is good for six hundred pounds of pork.

Cultural Methods.

On this farm the grain drill is used for planting. Holes are plugged to make the rows twenty-one inches apart. The corn planter may also be used at regular width which makes the rows too wide apart, or making the rows just half the regular width by straddling one row every second time across. The latter method is objectionable because the width of the rows is not uniform and therefore unsuited to the ordinary bean or beet cultivators.

Three types of cultivators are used—a four-row beet cultivator with knife blades attached instead of the regular shovels; a two-row cultivator and a single row plow. Mr. Johnson believes that deep cultivation for beans is a mistake as the bean roots spread to the center of the space between the rows and keep close to the surface. One field on this farm grew soy-beans which had been planted on July 15 this year after wheat which yielded forty-five bushels to the acre had been harvested from the ground. These beans were of fine size and ready to cut before September 20.

Forty varieties of soy-beans were

next shown and here the real lesson of the conference was learned. These varieties were of all sizes and shapes and from all sections of the country, from Louisiana to Minnesota.

W. J. Morse, the soy-bean expert of the United States Department of Agriculture, said that many varieties were sold in Ohio that required a longer growing season than conditions in Ohio would permit. For the Ohio average growing season of 115 days the following varieties, in the order of their ripening, were the most valuable: Ito San and Black Eyebrow, Manchú, Elton, and Medium Green. The Manchú is perhaps the best all-around bean, although others have their advocates. The Medium Green makes beautiful hay but the seeds shatter badly, making it difficult to secure the seed. It also makes a fine silage bean.

One of the most interesting things shown was the Hahto soy-bean, which is being developed by the United States Department of Agriculture as a possibility for human consumption. It resembles the lima bean in appearance and is similar to the soy-beans used by religious cults and sanatoriums. The Chinese and Japanese have also used similar beans quite extensively and as they are a great source of protein they are destined to great use in America.

Beans for Silage.

In the demonstration was a field which was partly plowed in spring and partly in fall. The difference was plain and greatly in favor of the fall-plowed ground.

Another point in culture was brought out in the number of cultivations given the beans. One patch had received no cultivation, while still another was given two cultivations. The difference here was plainly discernible and Mr. Johnson drove the lesson home by adding that he considered cultivation just as essential to the growth and well-being of the soy-bean crop as to a corn crop.

At the demonstration of corn and beans for silage seven varieties were shown growing in the corn. These were the Mammoth Yellow, the Medium Green, the Elton, the Indiana Holbrook or Northern Medium Yellow, the Meyer, the Virginia and the Johnson 4. It was hard to tell just what was the best variety for silage, though Medium Green and the Meyer possibly showed up the best. The Mammoth Yellow also gave a mighty nice showing but J. F. Cox, chief of the crops work in Michigan, produced some figures showing that, despite its deceiving appearance the Mammoth Yellow really produced less tonnage than some of the other standard and more highly recommended varieties. The Johnson 4, selection made by the Johnson Seed Farms from the Wilson 5, was shown here, not at its best because of a wind-storm, but it showed a nice fineness of quality and good weight of green material.

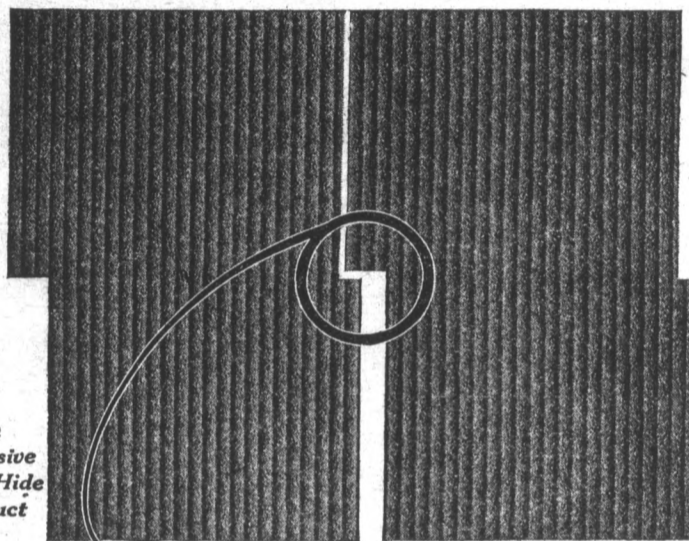
Other features inspected were the annual sweet clover patch which had produced just the week before the conference a yield of about eight bushels per acre; sweet clover as a cover crop following wheat in contrast with rag-weed, etc., and the completion of the soy-bean harvesting operations, such as mowing, raking, loading and threshing.

In the afternoon short snappy talks on legumes in general and soy-beans in particular, were given by Dean Alfred Vivian, of O. S. U.; Prof. J. F. Cox, of M. A. C.; Prof. Nicholas Schmitz, Pennsylvania; W. S. Morse, of the U. S. D. A., and Prof. J. B. Park, of O. S. U.

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MULE-HIDE LOK-LEVEL is of the same honest quality that is consistently found in all MULE-HIDE products. For real permanence, beauty and economy, based on years of service, use MULE-HIDE LOK-LEVEL. No other roofing material combines such attractiveness with such utility, as this fire-safe, permanent LOK-LEVEL Shingle.

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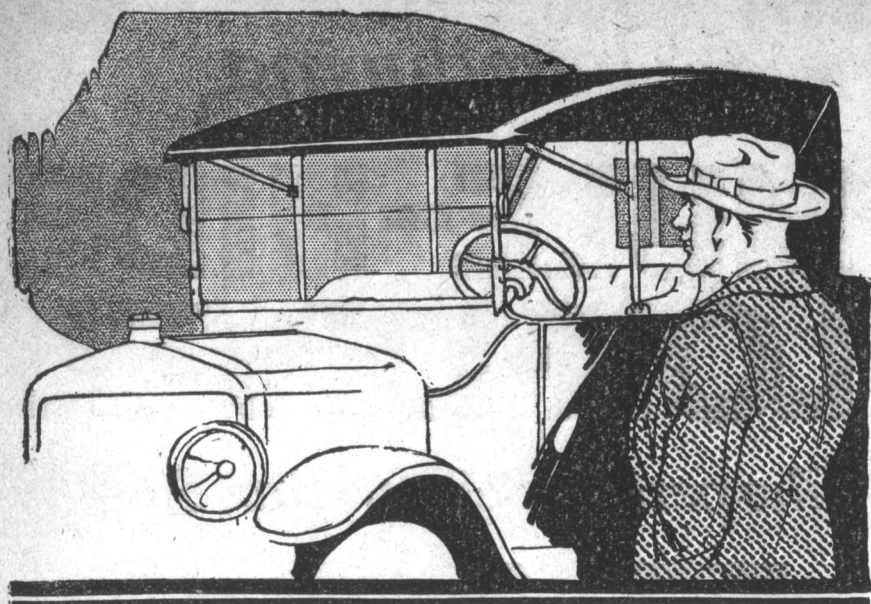
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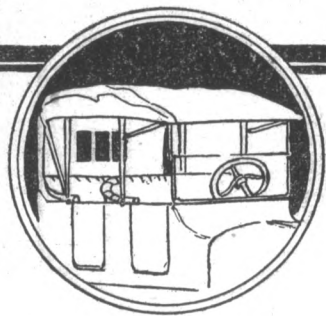
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A shabby looking top makes the whole car look shabby. In fact, it makes the whole family look shabby when they ride under it. The top is the thing which catches a person's eye first.

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Can you think of any way of getting a bigger value and more pleasure and actual satisfaction out of \$5.65 than by using it to give the old car a new "Fall Bonnet"?

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Albion steel and wood mills are quiet and powerful. One-third the working parts of any other mill. Only main Pitman bearing subject to wear. This is oilless, and easily replaceable. Govers by dependable weight without springs. Fits any 4-post steel tower. Why not shorten your chore hours now with a good Windmill? This is your chance—F. O. B. Albion. Erect it yourself. Ask your dealer, or write direct to Union Steel Products Co. Ltd. No. 628 N. Burien Street, ALBION, MICHIGAN, U. S. A.

Horticulture

BUREAU OF MARKETS OPENS A GRAND RAPIDS OFFICE.

THE United States Bureau of Markets and Crop Estimates has reopened its temporary field station in Grand Rapids from which reports on shipments of apples and potatoes will be issued during the fall and winter. The office during the fall and winter, and market reports, since have been mailed to all producing and shipping points in western and northern Michigan.

The Grand Rapids station is one of several established in the United States this month to collect and distribute accurate and current information concerning markets, shipments and receipts, trend of prices and the conditions of the markets in the large distributing centers.—R.

SIDE WORMS CAUSE DAMAGE.

EITHER a third hatching of codling moths or failure to give the last spray early enough is causing apple growers in western Michigan to suffer huge losses this fall. From fifty to seventy-five per cent of the apples in many of the orchards are found to be infested with worms and the growers are selling them at prices ranging from fifty to sixty per cent less than those bid for No. 1 fruit.

Fruit growers are astonished at the situation. They are inclined to believe their trouble lies in a third crop of moths as the season has been fully a month earlier than usual, and the weather in August was favorable for the hatching of the larvae. Many of the farmers were unaware of the damage being done until the fruit began to drop. Some of the growers believe that if they had sprayed every two weeks throughout August they might have been able to save their apples.

Harvest of winter varieties was commenced in several western Michigan orchards last week, and shipping got well under way this week. Buyers who have contracted whole orchards have been paying \$3.00 and upward for A-1 fruit. One storage firm in Grand Rapids is taking all apples offered at this price. One Chicago buyer is reported to have purchased 100,000 barrels on this basis. Many apples are going into cold storage in Grand Rapids for distribution during winter and spring.—R.

CLOVERLAND A MARKET FOR FRUIT.

LOWER peninsula farmers who may desire to market their apples and other fruit in the upper peninsula this fall, should plan their shipments with some care. There are a goodly number of sizeable towns in the district, with populations running from 5,000 to 15,000, which are worth while as markets for such products. These include Ironwood, Wakefield and Bessemer at the extreme west of the peninsula; Houghton, Hancock, Lake Linden and Calumet in the copper country; Menominee, Iron River, Crystal Falls and Iron Mountain, near the Wisconsin boundary, with Escanaba, Gladstone and Manistique on the Lake Michigan shore; Marquette, Ishpeming, Negaunee and L'Anse au Lac on or near the Lake Superior shore; and Newberry, St. Ignace and Sault Ste. Marie in the eastern portion. All have excellent rail connections with lower Michigan, by the Frankfort and Mackinac car ferries, so that carlots can come through in a few days. While business is dull at some points, it must not be supposed that the purchasing power

of the people has vanished. One southern Michigan farmer who personally disposed of a carload of apples last fall, intends, I understand, to double his shipment this year. His first venture was pretty profitable. While our local apple orchards are making a remarkable showing of fruit, they are not extensive and there will be a good demand for outside shipments.—C.

Memory Day

By Eva Wendell Smith

GOD always is making a garland,
Or gathering a lovely bouquet.
God does not leave us all to remain
And wither and shrivel away,
He plucks here a beautiful white lily,
And there a pink rosebud so fair
And transplants them up in the homeland
To give them His tenderest care.

He garners our most treasured darlings,
When we think they have only begun
Their work, in the great Master's vineyard,
But they must have heard the "well done."
Now we, who are left, know the heart-break
And, of death, we feel the sharp sting.
Then the Comforter lightens our sorrow
And sweet peace His presence does bring.

Sometimes he takes a young mother,
And leaves all her children behind.
We wonder how God could have called her,
But we must not think him unkind.
Now and then he takes a wise leader
Who had helped to uplift his race,
Then we wait, in stupefied silence,
To see who will step in his place.

A few grow so old and so feeble
God seems to forget they are here,
They outlive their friends and relations,
And linger on, year after year,
In due time the Lord of the garden
Brings them to His upper fold,
Where Christ said there are many mansions
And the streets are paved with pure gold.

No one ever returns to tell us
By a sign, or a look, or a word,
Of the glorious place we call Heaven
Of which we, from childhood have heard,
A few hear the angelic music
Not meant for our ears, ere they go
And we've seen, on some faintly faces,
God's impress, the soft afterglow.

And from every clime and nation
In life's morning, or in the gloom,
Our Master is making rare garlands
And calling His own blossoms home,
It is now we are charged with the keeping
Of a beautiful, most sacred trust
To care for the graves of those gone Home,
Whose cold forms are now turning to dust.

Again, in the autumnal splendor,
When the Summer has gone to stay,
We come to the place, called "God's Acre,"
To keep our dear Memory Day.
Sacred day—filled with memories tender
With thoughts that are precious and sweet,
We labor for those who have loved us,
To keep their last resting-place neat.

And, also, the grave of the stranger,
And those who have gone, long before,
We must give the same gentle service
As if we had known them of yore.
How welcome, the pleasant assurance,
To us, when we shall pass away,
That our graves will not be forgotten,
But cared for tenderly, on "Memory Day."

"The great America for which we long is unattainable unless the individuality of communities becomes more strongly developed."—Louis Brandeis.

Our Service Department

EMINENT DOMAIN.

A county road is about to be built on two sides of my farm. The officials desire to cut a round corner, using one-quarter of an acre of my place for the road. Am I compelled to sell? If not, would I have to enter into any proceedings?—H. W.

If the land is needed for a legal purpose and the owner and the authorities cannot agree as to the value, proceedings by eminent domain to condemn it may be instituted and the jury will assess the value and damages to the owner, and judgment will be entered taking the property. Without such power the government might be at the mercy of some individual who held and would not convey a necessary parcel.—J. R. R.

CLOVER WON'T START.

I can't get clover or alfalfa to start on my soil. The soil is rather light sand. Would like to know what I should do to get clover and alfalfa to grow. Can alfalfa and clover be sown in the fall with rye?—S. H.

Sandy land is quite apt to be deficient in lime and therefore it usually has an acid reaction. In other words, your soil is so sour or acid that the young clover cannot live. If you have this condition, which can be determined by the litmus paper test or the hydrochloric acid test, then the only thing on earth that will remedy the condition is the use of lime. This acid in the soil must be neutralized or the clover or the alfalfa will not grow. If the soil is quite acid, you ought to apply as much as two tons of ground limestone per acre and work it thoroughly into the surface soil. Plow the land before you apply the lime. Do not plow lime down.

Sandy land is also quite apt to be deficient in phosphoric acid, then acid phosphate must be applied. I know of no land in Michigan that won't grow clover if it contains a fair percentage of carbonate of lime and also phosphorous. If you apply the lime and the phosphorous and get a stand of clover, then you have just begun to improve this land so that it will produce profitable crops. All sandy soil needs is a good supply of organic matter. Of course, you can harvest the clover for hay and still improve the land, because the soil is full of clover roots which adds a good percentage of organic matter to the soil. If you would plow all of the clover down you would add more organic matter and would permanently improve the land sooner but, of course, it is quite expensive to grow a crop and then receive no benefit from it only in the improvement of the land. Most farmers need the crops which they produce for their living and expenses. It may be that just the added lime and phosphorous and the clover roots would put the land in such condition that it would grow a profitable crop of potatoes or some other crop. This can only be determined by experience.

C. C. L.

STATUTE OF FRAUDS—RECORDING ACTS.

A rents a field of B to put to buckwheat on condition that he (A) is to put it to rye after the buckwheat if he desires to do so. B, after the buckwheat is sown, decides he can put it to rye himself. Can he keep A from sowing it?

If B sells the farm to C before A commences work on the buckwheat, does this void A's contract with regard to either crop, even though he doesn't put out the buckwheat in a workmanlike manner?—O. K.

Leases for more than a year, not in

writing, are void; but in this case it appears that the lease was for the months necessary to mature a crop of buckwheat with option to extend it for a crop of rye. The first lease is for less than a year and is good. The option is for a lease to begin at a future time and extend for a period longer than a year from the giving of the option. The option is void under the statute.

Possession is notice of the rights of the person in possession, but without possession there must be recording of the instrument or proof of actual notice. If there is notice to the purchaser of the rights of the tenant, either by the tenant being in possession, or by actual notice or recording, the purchaser takes subject to the tenants rights.—J. R. R.

BEAN WEEVILS.

Please advise me what causes beans to get bugs in them, and what becomes of the bugs after they come out of the beans? At what stage are these eggs laid in the beans? If the beans were carefully picked over and heated would the good ones become bug-resistant? Is there anything that can be done to stop these bugs after they once get into a bunch of beans?—I. B.

The insect with which you are having trouble is the bean weevil, an insect quite common in beans. In the spring the weevils deposit the eggs in the bean pods and the growing grubs live in the beans themselves. They often stay in the bean through the winter and in early spring emerge as a beetle to start again with the egg-laying process.

With peas there are two methods of weevil control, one is to hold the seed over for a year and the other is to use fumigation with carbon-bisulphid; but with beans the keeping over of the seed is of no value so the only means of control we have is the fumigation. The best way to do this fumigation is to put the beans in a box that is as air-tight as possible, and then use carbon-bisulphid at the rate of five pounds to each thousand cubic feet of space in the box. Sprinkle the carbon-bisulphid over the beans and then close the box and, if possible, cover tightly with the gas-proof tarpaulin. The fumigation should continue for at least twenty-four hours.

FIGHTING QUACK GRASS WITHOUT A HOE.

(Continued from first page).

quack was, and the groundlings began to look rather pale but still there.

Then came the second part of the play. The sun-flowers were then about six or eight feet high and fairly stocky. As a method of getting rid of some of the quack without laying off from the haying, we turned the sheep into the field. They immediately began turning the quack into mutton without charge, picking only the lower leaves of the sun-flowers that would soon fall off anyway, and doing little other harm. This done they were turned out. Now the ground looks pretty clean, without any labor expense to get it, and we hope the quack will not be so robust next spring.

Illinois experiments show a ton of limestone on an acre will mean twelve bushels more of corn or wheat, and eleven bushels more of oats.

Sand or gravel is better bedding than straw for shipping hogs. Straw heats.

Why WōBST Felt Makes Warmer Shoes

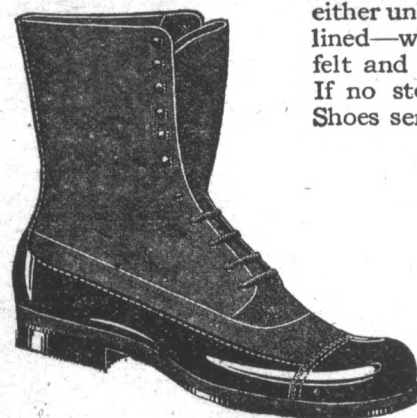
ONLY one grade of felt is used in Wobst Shoes—the best quality ever put into a felt shoe. Not a combination of cow-hair and glue, but real wool-felt providing greater warmth and comfort than can be secured in any other shoes—felt or leather.

Wobst shoes are more durable, too. Highest grade wool-felt, genuine fibre counters, full grain upper leather where leather is used—with these first-class materials in the hands of skilled workmen, Wobst Shoes are bound to wear longer because they are made so much better.

Give Most Value for Your Money

But with all these superior features Wobst Shoes cost no more than those that are cheaply made. This is because the Wobst Shoe Company, being the largest exclusive manufacturer of felt shoes, buys in enormous quantities and takes advantage of every economy of large-scale production methods. And this saving is passed on to the wearer of Wobst Shoes.

The Wobst line includes both men's and women's plain felt, leather foxed and full vamp shoes—either unlined, grey felt or wool-fleeced lined—with choice of felt, combination felt and leather and all leather soles. If no store near you carries Wobst Shoes send us the name of your shoe dealer and we will see that you are supplied.



Men's No. 751

This 9" Blucher style shoe, with its heavy black felt upper, is exceedingly popular with the man who looks for extreme shoe durability and foot comfort. Where leather is used, it is selected all grain—not "split." Lining is of high-grade grey wool-felt; sole is combination felt and leather; rubber heel. Sizes, 6 to 11.



Women's No. 542

Style, smooth fit, comfort and warmth are all combined in this 9" shoe. The black heavy felt upper and the fine-textured grey-felt lining are genuine wool-felt. The single grain-leather sole is extremely pliant. Leather heel; kid tip. Sizes, 3 to 8.

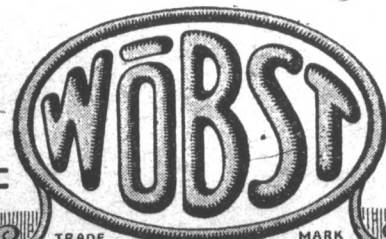
Our 100% Guarantee Backs These Shoes

Only the best of Materials and Workmanship go into Wobst Felt Shoes. Any buyer who finds a defect in a pair of Wobst Shoes may return them to his dealer who is authorized to refund the full purchase price.

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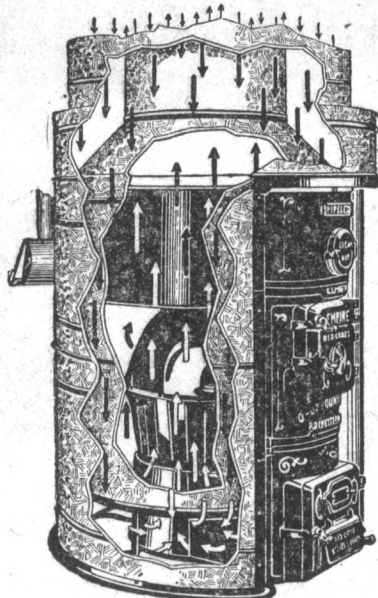


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EMPIRE Pipeless Furnaces are simple in construction and, therefore, easy to install. Every one that leaves our factory is the product of our sixty years experience in building the most scientific and most practical heating and cooking appliances. And our dependable GUARANTEE of absolute satisfaction stands back of all our products.

WRITE for illustrated, descriptive booklet on the latest and most scientific one-pipe heating system, and the name of the "Red Cross" dealer nearest to you.

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POULTRY

PULLETS PULLETS

We are all sold out of 8-10 week old pullets. And are booking orders now for breeding pens of ready to lay Single Comb White Leghorn, 5 pullets or yearling hens and one choice cockerel for Oct. Delivery. These birds are all raised by us from our bred to lay American-English strain. None better any where, regardless of what price you pay. They must be seen to be appreciated. Get ready for next year breeding season by ordering a pen of these, splendid birds and increase the profits from your flock. Choice breeding cockerel.

Price on application.

Macatawa White Leghorn Co. Inc.,
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This stock is all selected Pure Breed Practical Poultry, late moulters and good layers; 3000 Yearlings; limited number pullets. Guaranteed good practical quality. We will send you description of fowls and egg records. If you want first class paying Leghorns, write to us. Also limited number R. I. Red and Black Minorca Pullets; White Wyandottes yearlings.

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Parks 200-egg strain. From stock direct from Parks best pedigreed pens. \$3 each. R. G. KIRBY, Route 1, East Lansing, Mich.

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RHODE ISLAND WHITES win over all breeds at the egg laying contest. 30 eggs \$5; 50 \$8; 100 \$15 order from this ad. Some chicks. H. H. JUMP, R. 5, Jackson, Mich.

White Leghorns English and American strains. Choice cockerels, hens and 8-week pullets \$1.40 each for 10 or more; special prices in 100 lots. Will ship C. O. D. FRANK HEINZ, Box 6, Comstock Park, Mich.

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WHITE WYANDOTTES 207 egg average; cockerels \$5 each, 3 for \$14, 6 for \$25. FRANK DeLONG, R. 3, Three Rivers, Mich.

Single Comb Buff Leghorn cockerels, April and May hatched. Large lively fellows. Noted laying strain. Willard Webster, Bath, Mich.

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White Wyandotte cockerels and pullets. Prize winners and heavy producers, \$1 each. June hatched birds at \$2 each. Lone Elm Farm, EARLE R. MORRISH, R. 6, Flint, Mich.

WANTED 1000 March or April pullets Ferris Strain Single Comb White Leghorns. State number you have and lowest price in first letter. G. Caball, Hudsonville, Mich.

White Wyandotte and Barred Rock eggs, season. HOWARD GRANT, Marshall, Mich.

White Wyandottes I have a few splendid, pure bred cockerels for sale at \$3 each while they last. E. M. MILLER, Box 615, Newberry, Mich.

W. Chinese Geese, Pekin Ducks, R. C. MRS. CLAUDIA BETTS, Hillsdale, Mich.

The Breeding Cockerels

By R. G. Kirby

IN discussing breeding cockerels there is a chance of bringing in many facts and theories about line-breeding and in-breeding that are often confusing to the owner of a farm flock. It is the policy among many farm poultry breeders to change cockerels every year. This is done because the owners do not have time to keep breeding records. The birds are managed all in one free range flock and the system of changing cockerels frequently has seemed the best and easiest way of keeping up the vigor of the birds.

The reason that line breeding is so frequently advised for poultry breeders is because this haphazard method of changing cockerels every year has not often produced the best results. It is true that many poultry fanciers in-breed to fix certain qualities that they wish to appear in their flocks. But they do not inbreed carelessly. They keep careful records and study their birds so by this inbreeding they improve the points that are strong and bolster up points that are weak. They also take great care to use only stock of great vigor.

In this way the breeder develops a strain. But careless inbreeding of a farm flock results in making weak points still weaker. Soon the flock lacks in vigor and as no breeding records are maintained the owner does not know how to make for good results. Then the best method is to obtain new cockerels from a breeder with a good flock and these cockerels will help to stamp the progeny with more quality than the flock has possessed.

If a poultryman wished to keep records and use line breeding he could purchase one cockerel and one pullet of fine quality and then never have to introduce new blood into the flock. The pullets raised the first year would be mated back to the cock bird and one of the best cockerels mated back to the hen. This is continued until the poultryman has two families, one of them containing the blood of the first cockerel purchased and the other the blood of the first pullet. But I do not believe the farm poultry owner has time to carry on these careful breeding operations.

It is all right to say that the farm poultry breeders should do everything scientifically correct in breeding their poultry but the business takes a lot of time. Too frequently the farmer is overworked in the field and his wife overworked in the house. It means that there is little time for the special care needed for scientific poultry breeding. In this case I believe that the poultry specialists can do the careful breeding and furnish the seed stock for the vast number of farm flocks which need vigorous birds from bred-to-lay strains for the production of meat and eggs.

Here would be my plan for managing a farm flock as far as cockerels are concerned. I would buy hatching eggs or cockerels from a breeder of a bred-to-lay strain. I would only keep the best cockerels. Then they could be used one year and possibly two years. The best of their offspring could be used for another year or two. If the farm flock was large there would not be any great danger of too much inbreeding. I would select only the best cockerels and try to increase the vigor of the flock. After a few years if I had a chance to buy better cockerels of finer type for the breed and from very high-producing hens, I would try at least one of them. I might try to keep some records for this farm flock but if I was overworked and had to neglect them, I would let it slide and not worry too much about Men-

del's law or line-breeding or inbreeding, especially if I was only producing poultry for meat and eggs and there were many poultrymen with fine seed stock for sale to improve the flock.

I feel that there are two kinds of poultrymen. One is the specialist. The other is the farm poultry owner with too much work to do to be a poultry specialist. An article that is practical for one class may not be useful to the other. In making a better farm flock be sure that new cockerels are really an improvement over the ones you have. If you are breeding a bred-to-lay strain it will often pay to stick to that strain. If you wish to produce exhibition birds it will pay to stick to a strain of exhibition birds. Sometimes both qualities can be combined and that combination is a most worthy aim. But do not buy first an exhibition cockerel and then the next year try a bird from a two-hundred-egg hen and the next year buy an unknown bird just because it looks good. That results in the haphazard breeding which does not help the breeder to progress. In poultry breeding both with a farm flock and a specialists flock, it is necessary to have an aim. That much can be done even on the busy farm where there is not much time to devote to the poultry.

The writer's views on poultry breeding may not agree with some of our very skilled breeders of fancy poultry who often seem to think that nothing can be done without line-breeding. But on the farm poultry breeding is a slightly different proposition and sometimes a lot of good work can be done with a farm flock by purchasing good cockerels and raising good pullets. Then better and more expensive cockerels can be purchased later to make a further improvement. By occasionally purchasing this good seed stock the farmer poultry breeder can keep up his flock with a minimum of effort.

PTOMAIN POISONING.

Would you please tell me the trouble with my hens, and the cure? Their combs turn black first, and then the whole head. They droop for a few days or a week and then die.—J. E. H.

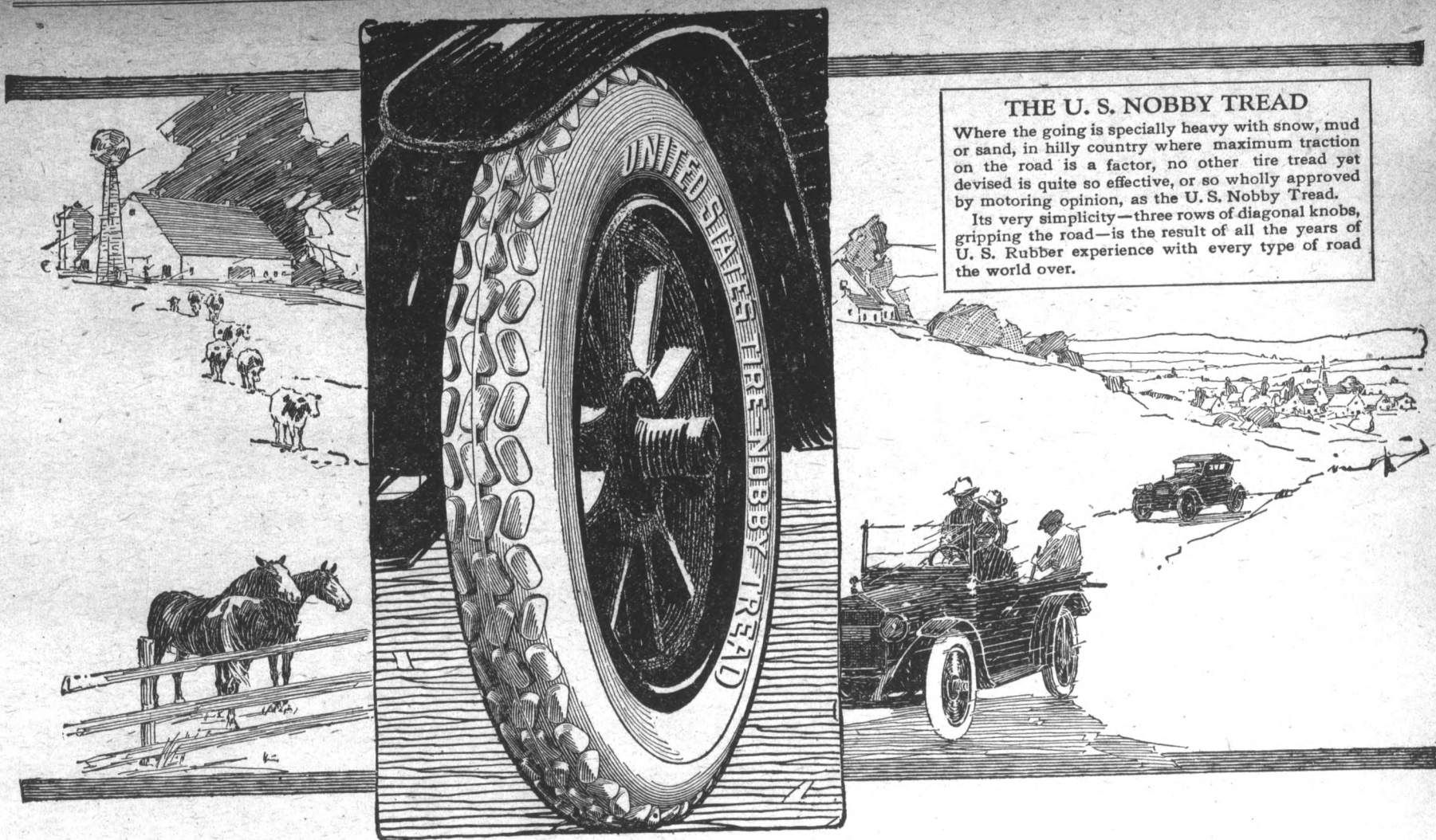
When the combs and the heads of chickens get black, it is due either to ptomaine poisoning or liver trouble. Ptomaine poisoning is caused by the hens eating spoiled food. A common symptom of it is that the birds are unsteady in walking, because of the partial paralysis of the muscles. In some cases diarrhea is present, the discharge occasionally being bloody. If the trouble is recognized in time, the bird should be given a teaspoon full of castor oil, which should be followed with sulphate of strychnine in doses of one-fifth grain every five hours.

The only way that you can tell whether the trouble is from the liver or not is by post-mortem examination. Open one of the birds that has died and examine the liver. If it is larger or smaller than normal, appears to be congested with blood, or appears to be marbled or spotted, you may feel sure that the trouble is some form of liver disease.

The only treatment that can be suggested for liver trouble is a change of diet. Give the chickens less corn and nitrogenous food and more green stuff. The birds should also be compelled to exercise.

Very often when liver trouble has been established in a flock, it is advisable to get rid of the old flock and start anew.

Hens stop laying when they start moulting. Those that moult first start laying last. Keep the late moulters for laying stock.



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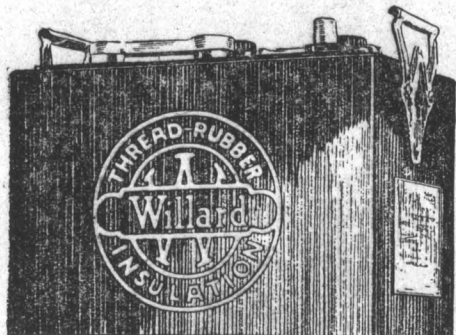


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The Thread-Rubber trade-mark tells you that the plates in your battery are insulated—not merely separated. Willard Threaded Rubber Batteries are selected by the best brains in the automobile business as standard equipment for 184 makes of cars and trucks.

Willard, in the search for a substance which would, all at the same time, INSULATE to keep the plates from contact with one another—be POROUS to permit free circulation of battery solution, and be DURABLE to avoid need for re-insulation—started with rubber. Rubber had two of the

necessary qualities—it insulates and it resists wear—Willard found the way to make it porous. Willard Threaded Rubber Insulation, made porous by thousands of tiny threads, is found only in the Willard Threaded Rubber Battery—the battery selected by the builders of 184 cars and trucks.

You can buy the Willard Threaded Rubber Battery of any of the dealers in your territory listed below. They all give authorized Willard Service:

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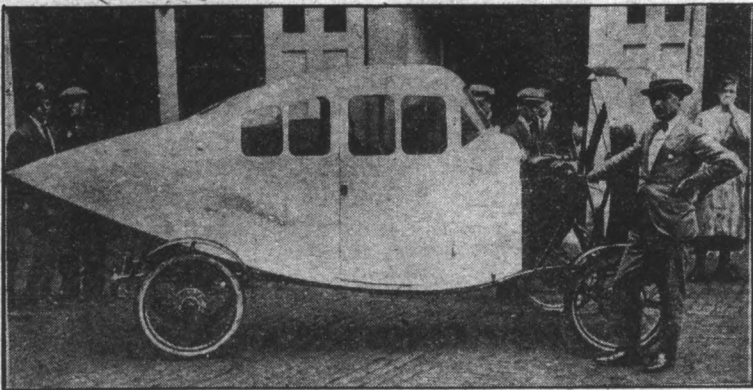
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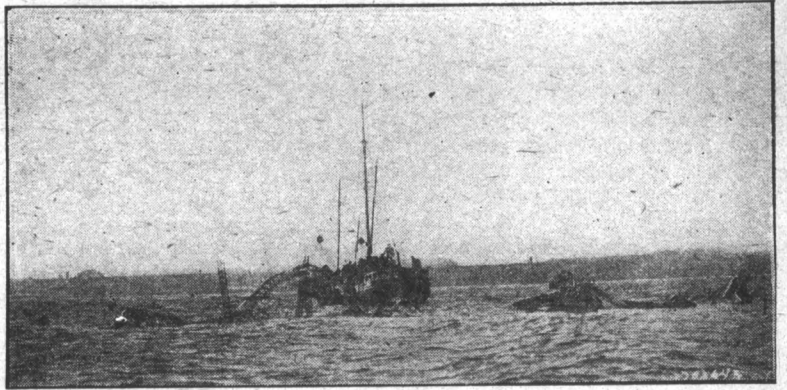
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WORLD EVENTS IN PICTURES



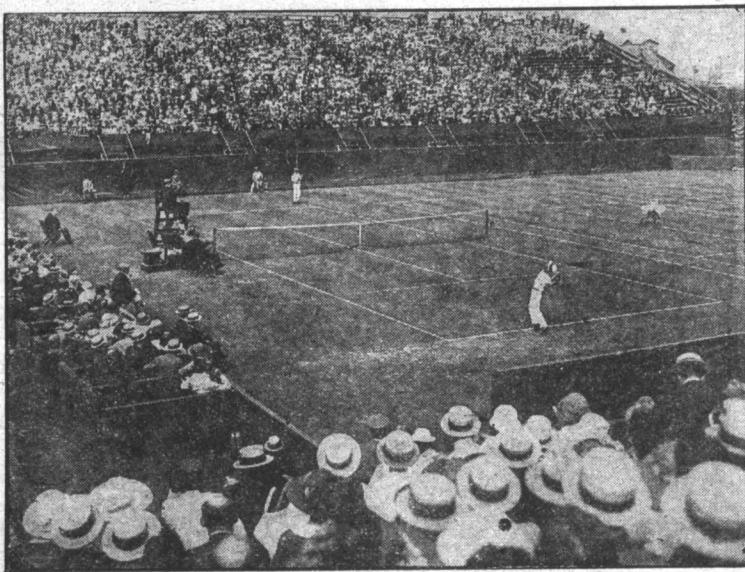
A new type of car, seen in London, is driven by an airplane propeller attached to an eight-horse-power engine.



Wreckage of the giant dirigible ZR-2 in the Humber River at Hull, England. Forty-five lives were lost in this wreck.



What happens when a trolley car bumps into a hotel.



Japanese and American experts in tennis engage in a hot contest for the Davis Cup, one of the great tennis trophies.



The widow of Gen. John A. Logan celebrates her 83rd birthday.



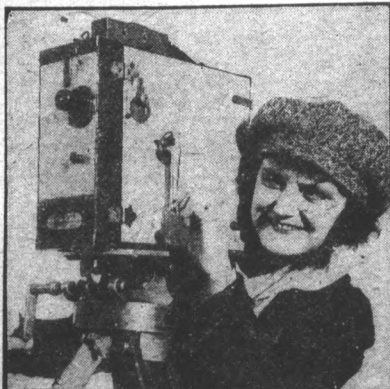
Frank Farino jumps rope after convalescing from having several stitches taken in his heart.



President Harding congratulates Mrs. Zaccachea for raising a family of sixteen. Mr. Zaccachea makes \$20 per week.



"Long Jim" Barnes gets the world's championship trophy in golf.



Miss Mildred Owens, one of few woman news movie operators.



Eugene Fowler startles Los Angeles with a few aerial acrobatic stunts.

THE BLIND MAN'S EYES

By William MacHarg and Edwin Balmer

CHAPTER IV.
Truce.

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A Summary of What Has Already Been Told

Gabriel Warden, capitalist and railroad director, mysteriously comes to death in his automobile. Connery, special conductor, gets orders to take charge of regular train and to obey requests of a passenger who will identify himself by a special card. Five passengers get on: Mr. Dorne and his daughter Harriet, a man named Avery, an Englishman, and a young man calling himself Philip D. Eaton. Mr. Dorne makes himself known to Connery by the card referred to, and Miss Dorne becomes acquainted with Mr. Eaton.

"There was no implication; it was simply inquiry."

"You should have put it, then, in some other form; you should have asked how I came to be in so surprising a position."

"How," in this part of the country, Miss Dorne, is not regarded as a question, but merely as a form of salutation," he bantered. "It was formerly employed by the Indian aborigines inhabiting these parts, who exchanged 'How's' when passing each other on the road. If I had said 'How,' you might have replied 'How,' and I should have been under the necessity of considering the incident closed."

She laughed. "You do not wish it to be closed."

"Not till I know more about it."

"Very well; you shall know more."

Mr. Avery brought me out to take a walk. He remembered, after bringing me as far as this, that we had not asked my father whether he had any message to be sent from here or any commission to execute; so he went back to find out. I have not waited so many minutes that I feel sure it is my father who has detained him. The imperfectly concealed meaning of what I am telling you is that I consider that Mr. Avery, by his delay, has forfeited his right. The further implication—for I do imply things, Mr. Eaton—is that you cannot very well avoid offering to take the post of duty he has abandoned."

"You mean walk with you?"

"I do."

He slipped his hand inside her arm, sustaining her slight, active body against the wind which blew strongly through the station and scattered over them snow-flakes blown from the roofs of the cars, as they walked forward along the train. Her manner had told him that she meant to ignore her resentment of the morning, but as, turning, they commenced to walk briskly up and down the platform, he found he was not wholly right in this.

"You must admit, Mr. Eaton, that I am treating you very well."

"In pardoning an offense where no offense was meant?"

"It is partly that—that I realized no offense was meant. Partly it is because I do not pass judgment on

things I do not understand. I could imagine no possible reason for your very peculiar refusal."

"Not even that I might be perhaps the sort of person who ought not to be introduced into your party in quite that way?"

"That least of all. Persons of that sort do not admit themselves to be such; and if I have lived for two—I shall not tell you just how many years—the sort of life I have been obliged to live almost since I was born, without learning to judge men in that respect, I must have failed to use my opportunities."

"Thank you," he returned quietly; then, as he recollected his instinctive prejudice against Avery: "However, I am not so sure."

She plainly waited for him to go on, but he pretended to be concerned wholly with guiding her along the platform.

"Mr. Eaton!"

"Yes."

"Do you know that you are a most peculiar man?"

"Exactly in what way, Miss Dorne?"

"In this: The ordinary man, when a woman shows any curiosity about himself, answers with a fullness and particularity and eagerness which seems to say, 'At last you have found a subject which interests me!'"

"Does he?"

"Is that the only reply you care to make?"

"I can think of none more adequate."

"Meaning that after my altogether too open display of curiosity regarding you, I can still do nothing better than guess, without any expectation that you, on your part, will deign to tell me whether I am right or wrong. Very well; my first guess is that you have not done much walking with young women on station platforms—certainly not much of late."

"I'll try to do better, if you'll tell me how you know that?"

"You do very well. I was not criticising you, and I don't have to tell why. Ask no questions; it is a clairvoyant diviner who is speaking."

"Divinity?"

"Diviner only. My second guess is

that you have been abroad in far lands."

"My railroad ticket showed as much as that."

"Pardon me, if it seriously injures your self-esteem; but I was not sufficiently interested in you when you came aboard the train, to observe your ticket. What I know is divined from the exceedingly odd and reminiscent way in which you look at all things about you—at this train, this station, the people who pass."

"You find nothing reminiscent, I suppose, in the way I look at you?"

"You do yourself injustice. You do not look at me at all, so I cannot tell; but there could hardly be any reminiscence extending beyond this morning, since you never saw me before then."

"No; this is all fresh experience."

"I hope it is not displeasing. My doubt concerning your evidently rather long absence abroad is as to whether you went away to get or to forget."

"I'm afraid I don't quite understand."

"Those are the two reasons for which young men go to Asia, are they not?—to get something or to forget something. At least, so I have been given to understand. Shall I go on?"

"Go on guessing, you mean? I don't seem able to prevent it."

"Then my third guess is this—and you know no one is ever allowed more than three guesses." She hesitated; when she went on, she had entirely dropped her tone of banter. "I guess, Mr. Eaton, that you have been—I think, are still—going through some terrible experience which has endured for a very long time—perhaps even for years—and has nearly made of you and perhaps even yet may make of you something far different and—and something far less pleasing than you—you must have been before. There! I have transcended all bounds, said everything I should not have said, and left unsaid all the conventional things which are all that our short acquaintance could have allowed. Forgive me—because I'm not sorry."

He made no answer. They walked as far as the rear of the train, turned and came back before she spoke again:

"What is it they are doing to the front of our train, Mr. Eaton?"

He looked. "They are putting a plow on the engine."

"Oh!"

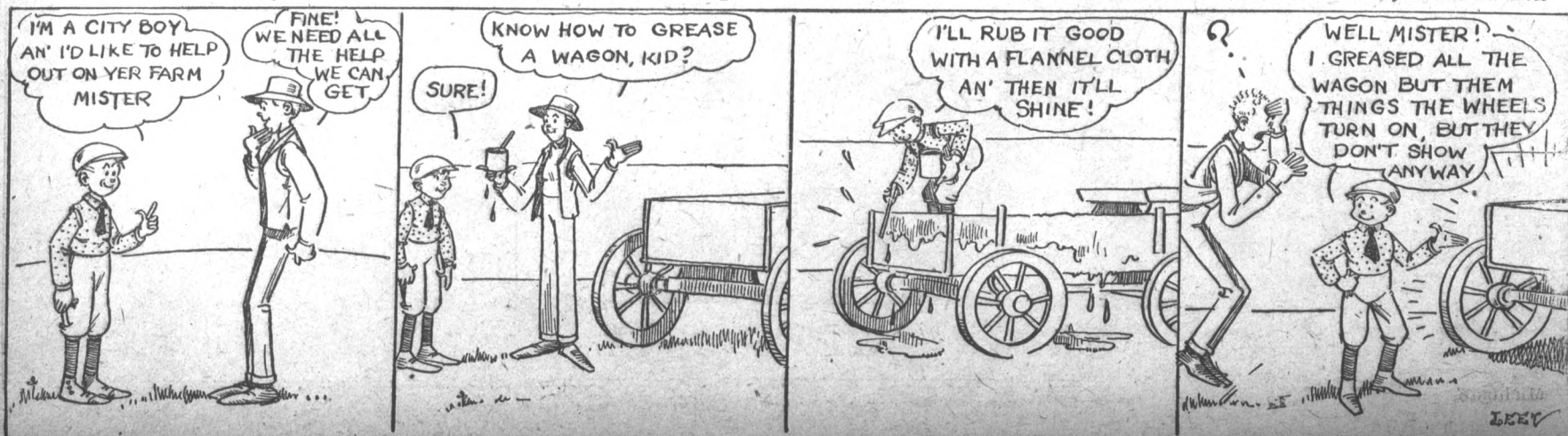
"That seems to be only the ordinary push-plow, but if what I have been overhearing is correct, the railroad people are preparing to give you one of the minor exhibitions of that everyday courage of which you spoke this morning, Miss Dorne."

"In what particular way?"

"When we get across the Idaho line and into the mountains, you are to

AL ACRES—Urban Ears Do Not Always Understand the Rural Tongue.

—By Frank R. Lee



ride behind a double-header driving a rotary snow-plow."

"A double-header? You mean two locomotives?"

"Yes; the preparation is warrant that what is ahead of us in the way of travel will fully come up to anything you may have been led to expect." They stood a minute watching the trainmen; as they turned, his gaze went past her to the rear cars. "Also," he added, "Mr. Avery, with his usual gracious pleasure at my being in your company, is hailing you from the platform of your car."

She looked up at Eaton sharply, seemed about to speak, and then checked what was upon her tongue. "You are going into your own car?" She held out to him her small gloved hand. "Good-by, then—until we see one another again."

"Good night, Miss Dorne."

He took her hand and retaining it hardly the fraction of an instant, let it go. Was it her friendship she had been offering him? Men use badinage without respect to what their actual feelings may be; women—some memory from the past in which he had known such girls as this, seemed to recall—use it most frequently when their feelings, consciously or unconsciously, are drawing toward a man.

Eaton now went into the men's compartment of his car, where he sat smoking till after the train was under way again. The porter looked in upon him there to ask if he wished his birth made up now; Eaton nodded assent, and fifteen minutes later, dropping the cold end of his cigar and going out into the car, he found the berth ready for him. "D. S.'s" section, also made up but with the curtains folded back displaying the bedding within, was unoccupied; jerkings of the curtains, and voices and giggling in the two berths at the end of the car, showed that Amy and Constance were getting into bed; the Englishman was wide awake in plain determination not to go to bed until his accustomed Nottingham hour. Eaton, drawing his curtains together and buttoning them from the inside, undressed and went to bed. A half hour later, the passage of some one through the aisle and the sudden dimming of the crack of light which showed above the curtains told him that the lights in the car had been turned down. Eaton closed his eyes, but sleep was far from him.

Presently he began to feel the train beginning to labor with the increasing grade and the deepening snow. It was well across the state line and into Idaho; it was nearing the mountains, and the weather was getting colder and the storm more severe. Eaton lifted the curtain from the window beside him and leaned on one elbow to look out. The train was running through a bleak, white desolation; no light and no sign of habitation showed anywhere. Eaton lay staring out, and now the bleak world about him seemed to assume toward him a cruel and merciless aspect. The events of the day ran through his mind again with sinister suggestion. He had taken that train for a certain definite, dangerous purpose which required his remaining as obscure and as inconspicuous as possible; yet already he had been singled out for attention. So far, he was sure, he had received no more than that—attention, curiosity concerning him. He had not suffered recognition; but that might come at any moment. Could he risk longer waiting to act?

He dropped on his back on the bed and lay with his hands clasped under his head, his eyes staring up at the roof of the car.

(Continued next week.)

Clara Nett, our village composer, has written a new song entitled, "Take Me Back to Lovely Maryland." She has never been south of Grass Lake, Michigan.

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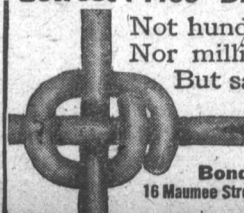
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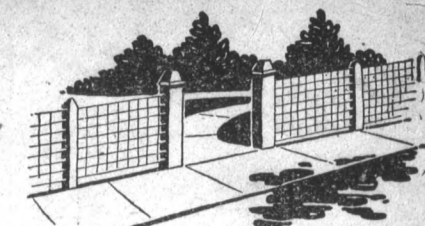
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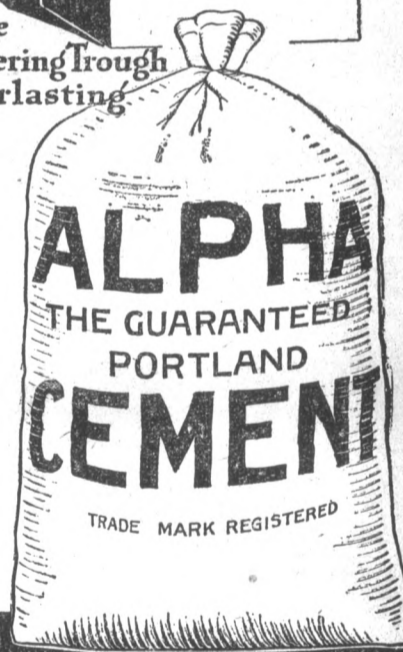
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30 Days
FREE TRIAL

Love Bath Tub Co.



But God has made no better things
In all the stars that rise and set
Than life that grows by cherishing
And cannot falter or forget.

Woman's Interests

The Farm Women of Canada

By Earle W. Gage

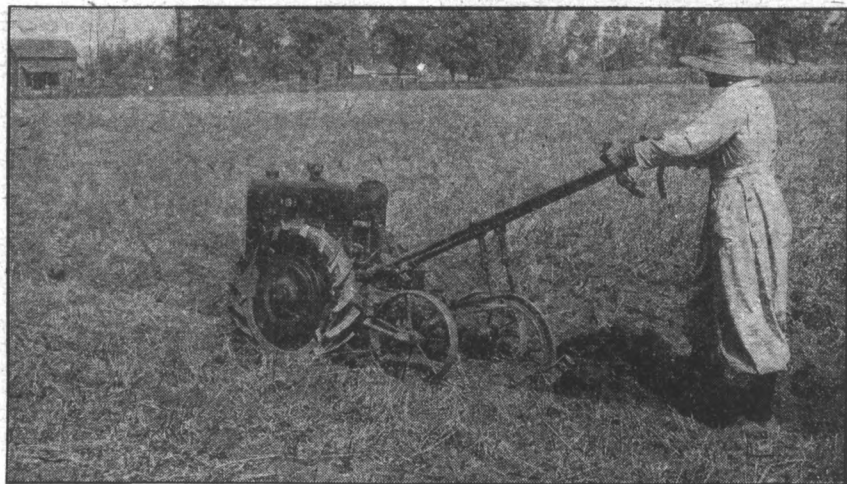
THE new attitude of women in general towards the land and in the desire so many of them evince to get back to the out-of-doors life, has been very noticeable since the conclusion of the war. The past two summers hundreds of women and girls have flocked to the farming districts and toil in the open air, and this has been attended with the most gratifying success. The Canadian Department of Labor and other organizations have been literally besieged with inquiries from women and girls who desire work on the farms, not in a domestic capacity but in the open of the fields.

Women took up practically every phase of man's work during the war and in the majority of cases carried it out as well as her brother. When the termination of hostilities inevitably relegated many of them to their former lives and environment, it was a hard matter to take up the old threads, and little wonder that many of them, seeing their own land limited in opportunity, and overcrowded, looked across the seas to fresh green pastures awaiting the development of human hands and minds. Since the signing of the armistice,

with the demobilization of the army, or more correctly, since the availability of transport after the return of the Canadian troops, women from the British Isles and elsewhere have crowded the steamers arriving at Canadian ports, and thousands have made the trip via New York, rather than wait months for a St. Johns or Halifax boat. Many were war brides but the greater number consisted of those for whom war employment had gone with the return of the men from the front and who, finding themselves belonging to a class of two million superfluous women, decided to start out anew in a

cuts, but this is occasional and the wife of the modern farmer finds her time well occupied in her household duties, her poultry and her superintendence of the dairying.

There are to be found, however, a few instances in which women (in one case a former successful London journalist), make a decided success operating a grain or mixed farm. This, however, presupposes a good deal of capital to initiate the enterprise, and such cases are very few. Four ex-army nurses of Montreal who, evidently suffering from the disease of the returned soldier, thought to take advantage of the soldiers' settlement act which permitted them to take soldier land



Many Women Are Finding a New Joy in Farm Work.

Do you discriminate at the dining table—or are you thoughtless?

In thousands of homes, a "line" is drawn at the breakfast table. Tea or coffee is served for "grown-ups" and Postum for children. But some parents do not discriminate. Caffeine and tannin, the injurious contents of coffee and tea, seriously retard the development of the delicate nerve tissues in children.

Consequently, instead of rich, satisfying Postum, children are overstimulated by the drugs in tea and coffee; and so may grow up irritable and nervous. Any doctor can tell you that this is a great evil and should be corrected.

Although some parents feel a certain justification for the personal indulgence in coffee, yet the harm to them may be equally serious. It may take a little while longer for the drugs in coffee and tea to affect

an older person, but in many cases the nervous system and allied bodily functions will become weakened. The surest way to avoid such possibilities is to quit coffee entirely and drink Postum instead. The change permits you to get sound, restful sleep.

Postum is the well-known, meal-time beverage. Like thousands of others you will like it because, in flavor, it is much like a high-grade coffee.

Do away with the distinction at the table. Serve delicious Postum, piping hot, to all the family. One week's trial and it is likely that you'll never return to tea and coffee.

Postum comes in two forms: Instant Postum (in tins) made instantly in the cup by the addition of boiling water. Postum Cereal (in packages of larger bulk, for those who prefer to make the drink while the meal is being prepared) made by boiling for 20 minutes.

virgin field where their efforts were not only obviously needed but urgently sought.

This movement continues unabated and every steamer sees parties of fresh-cheeked English women arriving under government auspices to find homes in every part of Canada. Many of them belonged to various battalions of the women's army, many are experienced land workers, others followed pursuits purely feminine. Groups are bound for domestic service, others to fruit sections for light land work, and still others, with limited capital, are taking up small pieces of land for themselves. Groups of women go straight from the boat to linen mills and other factories, being engaged in the old land and brought out by the management of these industries.

It is a burning question in the older countries just what opportunities await women and girls in America, especially in Canada, where an organized effort is being put on to secure this class of immigrants, much needed in a growing country. In Canada the sexes are more nearly balanced, which offers a more expansive field to women.

No tribute is too great or worthy which can be paid to the pioneer wives and mothers of the Canadian agricultural regions, but as a general rule agriculture is carried out on too large and expensive a scale for women to take any but a supplementary part. It is not uncommon to see a farmer's wife driving a binder at harvest while her husband is on an accompanying machine or shocking the grain as she

grants for their services overseas and make the long trek to the Spirit River district of the Peace River country, in northern Alberta. Here they have taken four quarter sections, in the middle of which a cabin has been erected, and have commenced their operations with the utmost confidence of success. However, such cases are exceptional, and woman's place on the large farms of the western country is usually as a helpmate to man, in which it must be said, there are thousands of openings.

The gentler phases of farming appeal to women, especially the robust, sturdy out-of-doors type, and this mode of livelihood is particularly appealing to those girls who worked on the land during the war, and in the experience they gained learned to love the free, untrammelled life.

In British Columbia, especially in the settled fruit areas, many women are operating small orchards or fruit farms and doing all the work entailed themselves. In the same districts, near industrial centers, many women are finding poultry raising a profitable means of livelihood and a calling which does not overtax their physical strength. Still others find a source of healthy revenue in beekeeping.

In the Niagara peninsula and other fruit districts of Ontario the same conditions prevail and here women are to be found wresting a living in the pleasantest environments and working conditions from the easily yielding soil. Each year sees a migration from the cities and towns to the orchards of the Pacific Coast

Postum for Health
"There's a Reason"

province, of women and girls of every profession and calling who find picking and packing fruit a profitable as well as pleasurable manner of spending a holiday.

Women of Canada may be said to have tackled most things and made a fair success of them, even to attaining cabinet rank in the provincial legislatures. In fact, the presiding officer of the British Columbia parliament is none other than a woman, possibly the first in the entire British Empire to occupy this stately and important position.

Indications are that girls are becoming more and more attracted to the active side of farm life, and it is significant to note that the 1920 graduating class at the Ontario Agricultural College included the first woman in Canada to take the degree of Bachelor of Scientific Agriculture.

RURAL EDUCATIONAL HANDICAPS.

CHILDREN of rural schools have not the educational advantages open to those of the city, according to the findings of the national departments of rural education and educational administration, recently held at Columbia University. Professor Mabel Carney, of Columbia, presents the following arraignment of rural schools:

"The average county superintendent supervises 132 teachers, scattered over a territory of 555 square miles," said Professor Carney. "These teachers have the least training of any teachers in the country, over half of them being not even high school graduates and all having to teach eight grades instead of one as in the city. And eighty-two per cent of the county superintendents have no assistants of any kind, not even a stenographer."

The county school child is at a great disadvantage in comparison with the city trained child, according to Professor Carney. "Almost half the school children of the United States attend one and two teacher rural school," the professor added, "Their term averages 137 days a year, as against 184 days a year for city children."

"The children's bureau in Washington estimates that 1,500,000 country children are engaged in farm labor to their detriment and kept out of school. For this reason illiteracy is twice as great in rural as in urban territory."

"Forty-eight per cent of country children have defective teeth, but only thirty-three per cent of city children are so neglected. Twenty-eight per cent of country children have had tonsils removed, and twenty-three per cent adenoids, while urban figures for the same handicaps are sixteen per cent and twelve per cent. In ear defects country children are four times worse than city children, while eye defects run twenty-three per cent for rural children and only twelve per cent for urban."

"The most apparent lack of rural schools during the last few years has been the shortage of rural teachers. In September, 1920, there was an actual shortage of 18,000 teachers. Of the 300,000 rural teachers, 150,000 have not completed a four-year high school course; 30,000 have finished only seven or eight grades of the elementary school. About 100,000 have had no professional preparation whatever, while less than two per cent are normal school graduates and only one-tenth of one per cent have had any special rural training."

"The salary situation explains most of this, as forty per cent of the rural teachers receive less than \$600 per year, twenty-four per cent less than \$500, and eleven per cent less than \$400. In the United States as a whole the educational expenditure for each city child is \$40; for each rural child it is \$24."



Just Like Selecting a Good Milker

One of the first points you look for when selecting a good milk cow is large nostrils. You know that she must have large breathing capacity, as well as good digestion to be a first rate milk producer.

When you buy a pipeless furnace, you must see that it has good air circulation (breathing capacity) as well as good combustion (digestion). If the air circulation is not great enough to absorb the heat as fast as the furnace generates it and then carry it up into your rooms, you lose both coal and comfort.

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The Moncrief Pipeless Furnace has casings of extraordinary capacity. The air from the floor flows gently down the extra large outer casing without creating drafts. In the roomy inner casing the air is heated to a genial warmth and is then distributed all over the house.

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All joints of the Moncrief Pipeless Furnace are carefully ground and fitted. The smoke and dust goes up the chimney—not up the register.

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THE BLISSFIELD TANNERY, Blissfield, Mich.

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Yearlings, poultry, implements, tools, etc.; potatoes, hay, oats, wheat, corn, beans from 4 acres included; in one State's best sections; close bustling RR high school town, easy drive big city, advantages; 58 acres rich loam tillage, 2 tons hay acre; spring watered pasture, wood, estimated 60,000 ft. timber; 50 apple trees, etc.; sugar maples; comfortable 7-room house, excellent outlook, beautiful maple shade; 2 good barns, spring water, tool house, poultry house; owner retiring reduces price to \$7000, less than half cash, easy terms. Independence attends your efforts here. Come at once. Catalog Free. **JAMES L. CROSS, 508 Bush Bldg., Flint, Mich.**

For Rent: 300 Acre farm in the "Thumb" Port Hope, Michigan. All improved level clay soil. Joins the village. Large barns with silo. On shares. Can occupy at once or next spring. **C. E. SMITH, Niles, Mich.**

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Hog, heifer, implements, etc.; big opportunity here; yielded 200 bushels apples last year; close town, advantages; 40 acres rich loam tillage, spring-watered pasture, estimated 400 cords wood, grapes, etc.; comfortable 2-story house, barn, poultry house, etc. Owner alone, sacrifices all \$1750, part cash, easy terms. Details page 71 New Illus. Catalog 1100 Bargains. **FREE! STROUT FARM AGENCY, 814 BC Ford Bldg., Detroit, Mich.**

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173 Acre Farm good house, buildings. With or without stock. Owner Box 382, Denton, Maryland.

Big Bargain: 100 acres, fine house, large barn, pictures. **DeCOUDRES, Bloomingdale, Mich.**

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Total value\$3.50
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A Different Story

A year ago he couldn't see insurance. When advised to protect his house, household goods, barns and equipment against fire, he impatiently replied, "Why waste my money on insurance. I'll protect my property by averting fire in the first place. Haven't I lived on this farm for 20 years without a sign of fire?"

A foolish farmer to be sure. Particularly so when he lost his barn and everything in it just six months ago.

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

Our Boys' and Girls' Department

Battles for Boys and Girls

By V. L. Edgar

ONE thing most boys and girls like is a battle of some kind or another. The disposition to fight seems to be in us by nature, and it clings to most people even after they get to be men. If we can't indulge this passion any other way we will get up sham battles and go through all the motions of a real combat. When they were training to be soldiers in the great war our boys were called upon to wage many a battle of this kind.

Let us think for a moment of another kind of a battle which every man, woman and child in all this world is compelled first or last to carry on. I was thinking of this when a few

girls who had pledged themselves never to contract any habit, no matter what, that would make them slaves such as is this congressman. It would be one of the finest organizations in the world.

For the time to gain the victory of this kind is before it gets its grip fastened upon us. Sooner or later somebody will ask you, if that has not already been done, to do something which will rob you of the choicest gift ever given to man, the gift of self control. The question may be avoided for a time, but at last it must be faced. When that time comes, remembering our allegiance to the society of

pigs, and has been making a fair profit from them, with bright prospects for the future. This lad works for a telegraph company eight hours during the daytime, and has only a little time to spend with the guinea pigs each day, but that time he is spending to the best advantage.

In every city, and in almost every town there is a sale for the guinea pigs, both as pets and for laboratory purposes. The lad I speak of started with a capital of four dollars, with which he purchased three guinea pigs, and now, after a year, he has sold several dollars worth of them, and has a dozen on hand. These he will keep until next spring, allowing them to multiply until that time, and so have a large number to sell in the spring. He has spent about four dollars during the year for hay, and a little feed, but for the summer months the pigs feed themselves in the back yard of this boy's home.

The fence has been screened and boarded so they cannot get out, and they have been trained so they will go and come from their own little box homes. Each pig has its home and knows where it is. During the cold months hay will be procured in large amounts for the pigs to keep themselves warm, and also for them to eat, as they are rather fond of hay along with their cabbage leaves and oats.

The lad expects to clear several dollars in the spring, besides having a nice lot of pigs left over to keep the money coming in. He has sold some pigs to the shops which deal in pets, receiving for the baby ones about fifty cents each, for the three and four months' old ones seventy-five cents is the average price. The dealer in turn sells the little ones for one dollar and the older ones for two and two fifty.

As the pigs multiply rapidly, one can figure about what profit would be made with a little time and trouble. If a boy had his entire time to give to the business, he might even make a good paying business and thus have a start in life which all boys crave, that of a business of his own.—A. P. M.

TO ALL THE LUCKY ONES.

Oh, when the wind blows hard and cold
In jolly old December,
There's nothing like the feeling of
A satisfied club member.

There's nothing like a cellar full
Of apples and potatoes,
And canned goods coloring up the shelf
Red berries and tomatoes.

And if you keep your record neat,
Your story well worked over,
You'll find the truest kind of luck
Goes with the four-leaf clover.
—Granite State News.

GUINEA PIGS.

IF a boy truly desires to make some money for himself, he can generally find a way at some time or other, provided he keeps his eyes open. Some boys do one thing, others do some, thing entirely different, but I believe all boys enjoy raising some sort of animals. There is a fascination about the growth which every boy enjoys.

A boy of my acquaintance has been raising those cunning little guinea

minutes ago I was reading a scrap taken from the official records of the congress of our country. They talk about some queer things in this body of statesmen. Not so very long ago these sedate gentlemen got to discussing chewing gum. From that it was but a step to the use of tobacco; and in the course of the debate one of the members said in speaking of the difficulty of stopping the use of this weed after it is once well fixed:

"I have tried many a time to stop the use of tobacco. I have found, as far as my health or happiness is concerned, that it is an impossibility with me."

This distinguished man, elected to represent the people in the highest law-making body in the United States, confessed that he is a slave to the use of tobacco. He would be terribly incensed if any of his fellow countrymen should make him a prisoner even for one day, shutting him up away from his business as a legislator. And yet, he has put chains upon his own life, according to his own admission, which he cannot break. Every time he fights a battle with this enemy—for he must consider it an enemy, or why should he want to cast it out of his life—he comes off defeated. If a man ever were a slave he is.

And the time will come with every boy, and I may as well say every girl, when he or she will be face to face with that very enemy, and a good many more besides. The question is, will these young folks after repeated efforts to set themselves free be compelled to make the pitiable confession that member of congress did?

I would like to see one big society of the Michigan Farmer boys and girls, an association without grips or signs or passwords or dues for membership. If it were left to me, I would call this society the Knights of the Pure Heart; and it should be made up of boys and



Healthful Recreation Helps One to Better Fight Life's Battles.



Menominee County Team which Demonstrated Poultry Culling at Fair.

Our Unfinished Dreams

Our Weekly Sermon—By N. A. McCune

THE other Sunday morning I Society to Hong Kong. He left for his went to church, not to preach, new field this past May. Three weeks but to listen. The preacher was after he landed in Hong Kong he died a distinguished pulpiteer from another of pneumonia. Was his life thrown state. The moment he began, he had away? Was his dream absolutely un- his hearers with him. It was a big realized? That depends on your idea audience, composed of tourists from of God. The Christian cannot believe almost every state in the Union. From that there is such waste in God's uni- climax to climax he led us on, and verse. Somewhere he will find that through one gate to another along a dream and work at it. His faith, his roadway that flamed on either hand daring, his love of humanity, were not with fire from the speaker's soul. Suddenly he paused, put his hand to his in vain. There are no unrealized dreams in God's economy. The torn and broken meshes of our plans are all mended in immortality.

On a high bluff overlooking Lake Michigan, there is a lonely village. It is hardly a village any more, for fire has swept through it and left but a few houses standing. Not many years ago it was a lively lumbering region. The big saw mill employed many men and the weekly pay roll was large. It was (and still is) an Indian region. No railroad is near, and the section changes but little from one year to the next. But the chief center of interest for the stranger is the inclosure where once there stood a convent and school. About the middle of the last century a Roman Catholic priest came there and built the convent and the school, thinking that some day the village would have a large population, and he would have built the foundations for future generations. In this he was mistaken. The village has gone backward, not forward. Growth has not blest the region. In 1889 the good father died and after that fire destroyed the convent and the other buildings. Today one enters a field where the grass and the sumach grow, and placid cows graze, and wanders about amidst the ruins. The old cellars are there, and one must look out or he may fall into one.

THE grave of the priest is inclosed by a little fence, where the tiger lilies grow. The grave was dug long before the priest died, and he was accustomed to go down into it daily and meditate on life, death and eternity. Around him are buried the brothers and nuns who were his helpers. The place has a lonely and pathetic air. It is an unrealized dream. The gardens that used to produce so abundantly under the cultivation of the inmates of the nunnery, have given way to grass. The apple orchard still stands, but the trees are in great need of attention. The thick population that the old father expected to see there, has not come, and probably never will. He did his best, planned for the future as fully as foresight would permit.

And yet it is better to dream of great things, than to have no vision at all. The earnestness of the man who built up the convent has not been altogether lost. No great efforts for human betterment are lost. God is too good a bookkeeper for that. Leaves fall and are lost to sight. Yet as they lie and mold under the trees they form a richer soil for future years. When we adventure for the divine we are on a quest that will never fail. When we invest in God, it is a "sure thing." Twenty-nine years ago a boy was born in Tasmania, the son of a minister. Winning one of the celebrated Rhodes scholarships, he went to Oxford University, England. There he became one of the most brilliant medical students the university has had in recent times. During the war he served as surgeon with the French army and was afterwards the house physician in a London hospital. Then he offered himself as a medical missionary and was sent by the London Missionary

MUCH has been written of a man who was one of the world's great adventurers. What no man had dared, he accomplished. He was the leader of one of the mightiest immigration movements that history records. By his personality, by his unimpeachable character, by his commanding will, and above all, by his simple faith in an overruling providence, he did the impossible. And yet when victory was almost in his grasp, he was not permitted to taste the fruits of it. Others went on into the Promised Land, but Moses finds a grave on the lonely summit of a mountain, where the mists rise and fall, and where the eagles soar. Did Moses fail? Was his dream unrealized? Ask history. Ask the Christian religion. Ask Christ.

It would be rash to say that there are no failures. There are thousands of them. When a man works selfishly, with no thought of God, he fails even if he succeeds. There is no success apart from the law of righteousness. "And he spake a certain parable unto them, saying, the ground of a certain rich man brought forth plentifully: And he thought within himself saying, what shall I do, because I have no room to bestow my fruits? And he said, this will I do: I will pull down my barns and build greater, and there will I bestow my fruits and my goods. And I will say to my soul, Soul thou hast much good laid up for many years; take thine ease, eat, drink and be merry. But God said unto him, Thou fool, this night thy soul shall be required of thee; then whose shall those things be, which thou has provided? So is he that layeth up treasure for himself, and is not rich toward God."

ALL the world has been reciting the praises of the Pilgrim Fathers. In England last year there were the most elaborate celebrations, featured with pageants. In America, the whole nation has been writing about the Puritans, while the public schools have given Puritan plays. Yet the Puritans were not money-makers. They pitched their pilgrim tents on a barren soil, and in an inhospitable climate. Many of them died of disease. The hopes they had of building a theocracy on earth, were not realized. And yet—what would America be, if there were no Puritan, no New England blood in her veins? Where would our literature be, without Lowell, Longfellow, Whittier and Hawthorne? Where would our policies be without the Adamsses, Sumner, Webster, Hoar, Silas Wright? What would the history of the church of America be, without Beecher, Bushnell and Jonathan Edwards? If the Puritans had produced nothing but Edwards and his descendants, all their toil and sacrifice would have been justified. There is no failure where God is in the thought of the actor. Faith is as certain of results, as the stars are of shining. It is more certain.

Courage is helped by encouragement. Help others by giving it freely.

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I MAKE a business of helping young men succeed. Every year thousands come or write to me—

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I want a better job—more pay—
a bigger future."

Money! Money! More MONEY! Ambitious men want to advance. Young men want to get started in trades and businesses which pay well. All want to live well—to be happy, prosperous, SUCCESSFUL.

"Know how to do some one thing well," I tell them. "Be a trained man. Learn by actually doing, under competent instructors, the work you would like most to do. Become an expert. Then dig in and work hard, save, and be independent, SUCCESSFUL."

A Better Chance For Ambitious Men.

Fourteen years ago I began helping young men make more money. At Kansas City, Mo., I opened the Rahe Auto and Tractor School. I decided to make it an outstanding institution of learning—a place where ambitious men who do not have time to go to college can prepare for life, at relatively small cost. For I felt that every young man should have a chance for schooling that would directly increase his income. And he should be taught quickly—in 6 to 8 weeks. The school grew. In all, I have four large buildings at Kansas City.

Last year I decided I must further enlarge. Either more floor space at Kansas City, or establish new schools. Why not, I thought, take the Rahe-Way of Auto and Tractor training hundreds of miles closer to young men who could not come to Kansas City? The idea proved sound. I established the Cincinnati school—not a branch, but an independent, full-fledged Auto and Tractor School, teaching the famous Rahe-Way. From the day it opened its doors it has been a success. Hundreds of young men have trained there. The new Chicago School has just opened—it is ready now to teach the Rahe-Way to the thousands of young men in Chicago's big territory who have wanted for years to equip themselves with this practical training for life.

Billions Paid For Motor Upkeep.

Three Billion Dollars, it is estimated, will be spent this year on motor upkeep. Few persons realize this—few think of the auto and tractor repair service and the general garage business as one of the largest in the country. Yet it is. And it is steady, stable business. No layoffs or depressions, for the millions of motor cars and tractors in use must be kept in condition. There is this about it, too! Every year the cars already in use grow older. As they age they need more care. Of the \$3,000,000,000.00 a big part goes to the owners of garages and their assistants.

This is my advice to ambitious young men, the fellows who want to get ahead, to be independent. Equip yourself the Rahe-Way. Learn Auto and Tractor mechanics thoroughly. Be an expert. Then pick your job from the many openings available when you leave my school. Go to work, and work hard. You will make good money, mighty good money for a young man. SAVE a good part of these earnings, put them away in the bank. In a year or so you may be independent—in a position to start a garage of your own. Not a large one right away perhaps, but if you know how to give good service, your business will grow. In time you will be making—well, you will set your own income. Garage owners make as high as \$50,000 a year, others plug along making \$3,000 or \$4,000. It is all up to the man—his training, how hard he will work, his ability to save, his ambition and his initiative.

Learn the RAHE-WAY For Big Pay.

But I want you to remember this. Thorough training pays. And the way to get this thorough training is to work under the Master Mechanics in a Rahe School. I have spent fourteen years of my life training these Master Instructors to train YOU. I have rolled up my sleeves to take apart engines. I like to work with power machinery, just as any real man does. And so I keep in touch at all times with the training given in each one of the departments. Here is what you get under the Rahe Life Scholarship—complete Auto and Tractor Training, including Transmissions, Engine Assembly, Starting and Lighting Systems, Storage Batteries, Carburetion and "Trouble Shooting," Welding and Cutting, Forging and Soldering, Vulcanizing, Tire Repair, Rebuilding and Retreading, Complete Machine Shop Practice, Special Ford work, Special Truck and Tractor instruction.

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A complete Rahe Life Scholarship for \$100. For a limited time only, I am offering the entire Rahe course at this new rate—\$50 saving over my regular rate of \$150. The offer first was made to introduce the new Chicago School. But it wouldn't be fair, I decided, to make an offer for Chicago that I wouldn't duplicate at Kansas City and Cincinnati. So, for \$100, you can receive the complete Rahe Life Scholarship—which entitles you to training as long as you want to attend, any time, at any of the Rahe Schools.

Decide to come now. Decide to give yourself the practical training for life which every young man should have. Fill out the Coupon below. I will send you my 68-page book. It tells how other men have trained for big pay positions, independence, prosperity, SUCCESS. Fill out the Coupon NOW.

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Live Stock Awards at State Fair

(Continued from last week).

American Merino—Type C or Delaine.

Ram two years old or over:—First, Blamer & Son; 2nd, Moeckel; 3rd, Blamer & Son; 4th, Hogselt & Sly; 5th, Hogselt & Hogselt.

Ram one year old:—First, Hogselt & Sly; 2nd and 3rd, Calhoon Bros.; 4th, Blamer & Son; 5th, Moeckel.

Ram lamb:—First, Calhoon Bros.; 2d, Blamer & Son; 3rd, Calhoon Bros.; 4th, Nye; 5th, Hogselt & Sly.

Ewe two years old or over:—First, Nye; 2nd, Moeckel; 3rd, Blamer & Son; 4th, Hogselt & Sly; 5th, Nye.

Ewe one year old:—First, Nye; 2nd and 3rd, Calhoon Bros.; 4th, Nye; 5th, Calhoon Bros.

Ewe lamb:—First, Hogselt & Sly; 2nd, Calhoon Bros.; 3rd, Nye; 4th, Moeckel; 5th, Blamer & Son.

Champion ram:—First, Hogselt & Sly; 2nd, Blamer & Son.

Champion ewe:—First and 2nd, Nye.

Flock:—First, Hogselt & Sly; 2nd, Calhoon Bros.; 3rd, Nye; 4th, Blamer & Son; 5th, Moeckel.

Breeder's young flock:—First, Hogselt & Sly; 2nd, Calhoon Bros.; 3rd, Nye; 4th, Moeckel; 5th, Blamer & Son.

Lamb flock:—First, Calhoon Bros.; 2nd, Hogselt & Sly; 3rd, Blamer & Son; 4th, Nye; 5th, Moeckel.

Get of sire:—First, Calhoon Bros.; 2nd, Hogselt & Sly; 3rd, Blamer & Son; 4th, Nye; 5th, Moeckel.

Aberdeen-Angus.

Bull three years old or over:—First, Carpenter & Ross, Mansfield, Ohio, on Prince Idyll of Maisemore; 2nd, W. E. Scripps, Orion, Mich., on Edgar of Dalmeny; 3rd, Angus Home Stock Farm, Davison, Mich., on Black Rosegay; 4th, M. A. C., East Lansing, Mich., on Blackbird Brandon 2nd; 5th, Eldred A. Clark, St. Louis, Mich., on Black King Master II.

Bull two years old:—First, Scripps on Earl of Rosebury; 2nd, Scripps on Editor of Wildwood; 3rd, Angus Home Stock Farm on Black Monarch 20th.

Senior yearling bull:—First, Dr. G. R. Martin & Son, Crosswell, Mich., on Bardell; 2nd, Woodcote Stock Farm, Ionia, Mich., on Claude of Xenia; 3rd, Scripps on Black Eno of Wildwood.

Junior yearling bull:—First, Scripps on Eirreboil of Bleaton; 2nd, Scripps on Plumb Square Level; 3rd, Carpenter & Ross on Earlwood of Maxwellton; 4th, Eldred A. Clark on Blackrock of Bellevue XI.

Senior bull calf:—First, Woodcote Stock Farm on Edge of Woodcote; 2nd, Carpenter & Ross on Warrior of Maxwellton; 3rd, Thomas Barnett & Son, Pontiac, Mich., on Model Boy; 4th, Scripps on Black Cap Edgar 2nd; 5th, Barnett & Son on Quality Knight.

Junior bull calf:—First, Woodcote Stock Farm on Blandus of Woodcote; 2nd, Clark on Edgar of St. Louis; 3rd, Angus Home Stock Farm; 4th, Scripps on Pridistas; 5th, G. R. Martin & Son on Daddie Farms Monarch 5.

Cow three years old or over:—First, Carpenter & Ross on Erica C 5th; 2nd, Scripps on Pride of Glencarnock 3rd; 3rd, Woodcote Stock Farm on Erica of Woodcote; 4th, Scripps on Pridista of Glencarnock; 5th, Martin & Son on Fannie of Burnbrae; 6th, M. A. C. on College Pride.

Heifer two years old:—First, Carpenter & Ross on Olga 2nd of White River; 2nd, Scripps on Black Cap Lady Belle; 3rd, Woodcote Stock Farm on Blackbird of Woodcote; 4th, Woodcote Stock Farm on Blackbird of Woodcote 11th; 5th, M. A. C. on Heather Lass of Wildwood.

Senior yearling heifer:—1st, Scripps on Queen Nina 2nd; 2nd, Carpenter & Ross on Muskogee Erica 11th; 3rd, Woodcote Stock Farm on Ermina of Woodcote; 4th, Angus Home Stock Farm on Twin Black Cap 39th; 5th, Carpenter & Ross on Blackbird 367.

Junior yearling heifer:—1st, Scripps on Pridista of Wildwood; 2nd, Barnett & Son on Model Queen; 3rd, Scripps on Wildwood Pretty Rose; 4th, Woodcote Stock Farm on Edesta of Woodcote; 5th, Martin & Son on Black Cap Eloquent; 6th, Carpenter & Ross on Barley Maid.

Senior heifer calf:—First, Woodcote Stock Farm on Evasion of Woodcote; 2nd, Scripps on Queen Mary Ann; 3rd, Carpenter & Ross on Edith of Elaine; 4th, Barnett & Son on Lassie B; 4th; 5th, Scripps on Black Bess of Wildwood.

Junior heifer calf:—First, Scripps on Pride of Wildwood; 2nd, Woodcote Stock Farm on Exact of Woodcote; 3rd, Woodcote Stock Farm on Elopess of Woodcote; 4th, M. A. C. on College Pride 8th; 5th, Dr. Martin & Son on Lady Moore 6th of D. F.

Senior champion bull:—Carpenter &

Ross on Prince Idyll of Maisemore.

Junior champion bull:—Scripps on Eirreboil of Bleaton.

Senior champion female:—Carpenter & Ross on Erica C 5th.

Junior champion female:—Scripps on Queen Nina 2d.

Grand champion bull:—Carpenter & Ross on Prince Idyll of Maisemore; reserve, Scripps on Eirreboil of Bleaton.

Grand champion female:—Carpenter & Ross on Erica C 5th; reserve, Scripps on Queen Nina 2d.

Exhibitor's herd:—First, Carpenter & Ross; 2nd, Scripps; 3rd, M. A. C.; 4th, Angus Home Stock Farm.

Breeder's herd:—First, Scripps; 2nd, Woodcote Stock Farm; 3rd, Martin & Son.

Calf herd:—First, Woodcote Stock Farm; 2nd, Scripps; 3rd, Martin & Son.

Four get of sire:—First, Scripps on Edgar of Dalmeny; 2nd, Woodcote Stock Farm; 3rd, Clark.

Two produce of cow:—First, Woodcote Stock Farm; 2d and 3rd, Scripps.

Polled Durham.

Bull three years old or over:—First, L. C. Kelly & Son, Plymouth, Mich., on Ridge Road Sharon.

Bull two years:—First, Ben D. Kelly, Plymouth, Mich., on Roan Lad.

Junior yearling bull:—First, Kelly & Son on Banker K.

Senior bull calf:—First, Kelly & Son on Molly's Lad.

Cow three years old or over:—First, Ben D. Kelly on Belle of Bonnie Brae; 2nd, Kelly & Son on Bernice H.

Heifer two years old:—First, Kelly & Son on Bernice K; 2nd, Ben D. Kelly on Red Wabash.

Senior yearling heifer:—First, Ben D. Kelly on Gipsy Maid; 2nd, Kelly & Son on Rosalind 4th.

Junior yearling heifer:—First, Kelly & Son on Rosebud Queen.

Senior heifer calf:—First, Ben Kelly

on Princess Sultana; 2nd, Kelly & Son on Snowball.

Junior heifer calf:—First, Kelly & Son on Bernice K 2nd.

Senior champion bull:—First, Kelly & Son; 2nd, Ben D. Kelly.

Junior champion bull:—First, Kelly & Son; 2nd, Ben D. Kelly.

Senior champion female:—First, Kelly & Son; 2nd, Ben D. Kelly.

Junior champion female:—First, Ben D. Kelly on Princess Callum; 2nd, Kelly & Son.

Grand champion bull:—First, Kelly & Son; 2nd, Ben D. Kelly.

Grand champion female:—First, Ben D. Kelly; 2nd, Kelly & Son.

Exhibitor's herd:—First, Kelly & Son, 2nd, Ben D. Kelly.

Breeder's herd:—Kelly & Son.

Calf herd:—Kelly & Son.

Four get of sire:—First, Ben D. Kelly; 2nd, Kelly & Son.

Two produce of cow:—First, Ben D. Kelly; 2nd, Kelly & Son.

Red Polled.

Bull three years old or over:—First, Westbrook Bros., Ionia, Mich., on Famous Charmer; 2nd, Stump & Etzler, Convoy, Ohio, on Teddy's Chief; 3rd, Herbison Bros., Birmingham, Mich., on Prince Lulo; 4th, Walter Luckhardt, Manchester, Mich., on Prince Henry.

Bull two years:—First, Stump & Etzler on Cosy Ellis Ruben; 2nd, Westbrook Bros.

Senior yearling bull:—First, Herbison Bros., on Elmbrook-leader.

Junior yearling bull:—First, Stump & Etzler on Perfection Waxworth; 2nd, Walter Luckhardt on Huskie Boy.

Senior bull calf:—First, Stump & Etzler; 2nd, Herbison Bros. on Elmbrook Chief.

Junior bull calf:—First, Stump & Etzler on Princess Chief; 2nd, Herbison Bros. on Rondo.

Cow three years old or over:—First, Herbison Bros. on Flirt; 2nd, Stump & Etzler on Princess Elaine; 3rd, Westbrook Bros. on Princess Diana Lassie 4th; 4th, Stump & Etzler on Cosy Ellis Tip; 5th, Westbrook Bros. on Marguerite Clark.

Heifer two years:—First, Herbison

Bros. on Ruth of Elmbrook; 2nd, Westbrook Bros. on First Maiden of Springwater; 3rd, Stump & Etzler on Rosemond Coronet; 4th, Stump & Etzler on Cosy Ellis Della; 5th, Walter Luckhardt on Helen.

Senior yearling heifer:—1st, Stump & Etzler on Gwendolen Duchess; 2nd, Westbrook Bros. on Lucy H; 3rd, Herbison Bros. on Elmbrook Frances.

Junior yearling heifer:—1st, Stump & Etzler on Princess Marie Ted; 2nd, Herbison Bros. on Modge of Elmbrook; 3rd, Westbrook Bros. on Bonnie; 4th, Westbrook Bros. on Marguerite of Springwater; 5th, Walter Luckhardt on Huskie Lady.

Senior heifer calf:—First, Stump & Etzler on Teddy's Beauty; 2nd, Herbison Bros. on Darline of Elmbrook; 3rd, Westbrook Bros. on Lassie of Springwater; 4th, Walter Luckhardt on Shady Lawns Pearl; 5th, Luckhardt on Elizabeth.

Junior heifer calf:—First, Stump & Etzler on Cosy Ellis Ina; 2nd, Stump & Etzler on Cosy Ellis Lady; 3rd, Herbison Bros. on Norma of Elmbrook; 4th, Westbrook Bros. on Alice of Springwater; 5th, Walter Luckhardt on Ruth.

Senior champion bull:—Westbrook Bros. on Famous Charmer; reserve, Stump & Etzler on Cosy Ellis Ruben.

Junior champion bull:—Stump & Etzler; reserve, Stump & Etzler.

Senior champion female and reserve:—Herbison Bros.

Junior champion female and reserve:—Stump & Etzler on Cosy Ellis Ina and Teddy's Beauty.

Grand champion bull:—Westbrook Bros. on Famous Charmer; reserve, Stump & Etzler.

Grand champion female:—Stump & Etzler on Cosy Ellis Ina; reserve, Herbison Bros.

Exhibitor's herd:—First, Stump & Etzler; 2nd, Westbrook Bros.; 3rd, Herbison Bros.; 4th, Luckhardt.

Breeder's herd:—First, Stump & Etzler; 2nd, Herbison Bros.; 3rd, Luckhardt.

Calf herd:—First, Stump & Etzler; 2nd, Herbison Bros.; 3rd, Luckhardt.

Four get of sire:—First, Stump & Etzler; 2nd, Herbison Bros.; 3rd, Westbrook; 4th, Luckhardt.

Two produce of cow:—First, Stump & Etzler; 2nd, Herbison Bros.; 3rd, Westbrook Bros. on Marguerite Clark; 4th, Luckhardt.

Shorthorns.

Bull three years old or over:—First, M. & J. Schaffner, Erie, Pa., on Argonaut 829848; 2nd, Carpenter & Ross, Mansfield, Ohio, on Maxwellton Royalist 699910; 3rd, Bidwell Stock Farms, Tecumseh, Mich., on Revolution, Jr. 288583; 4th, A. Cornell & Son, Elkton, Mich., on Collynie Cullen 562994; 5th, John Lessiter's Sons, Clarkston, Mich., on Elmdale 894760.

Bull two years old and under three:—First, Carr Bros. & Co., Bad Axe, Mich., on Royal Bruce 795521; 2nd, Carpenter & Ross on Maxwellton Marumot 811175; 3rd, Buckland Hall Farm, Nokesville, Va., on Lespedeza Choice 798730; 4th, C. H. Prescott, Tawas City, Mich., on Lord Lorne 769953.

Senior yearling bull:—First, Michael Wagner, Fremont, Ohio, on Cloverleaf Star 988324.

Junior yearling bulls:—First, Buckland Hall Farms on Pride of Grandview 910735; 2nd, Prescott on Richland Augustus 992210; 3rd, Carr Bros. on Bloomdale Pride 955526; 4th, J. C. Clark & Son, Harbor Beach, Mich., on Maxwellton Waverley 951390.

Senior bull calf:—First, Carr Bros. on Bloomdale Leader (reg. applied for); 2nd, Carpenter & Ross on Maxwellton Clansman 1003826; 3rd, Carr Bros. on Bloomdale Comet (reg. applied for); 4th, S. H. Pangborn, Bad Axe, Mich., on Perfection Choice (reg. applied for).

Junior bull calf:—First, Prescott on Richland Autocrat 992211; 2nd, Schaffner on Argonaut 2nd 978545; 3rd, Schaffner on Argonaut Emblem 978546; 4th, Lessiter's Sons on Avon King (reg. applied for); 5th, Schaffner on Argonaut, Jr. 978548.

Cow three years old or over:—First, Carpenter & Ross on Snowbird Sultan 595906; 2nd, Buckland Hall Farms on Maxwellton Fancy 4th 679513; 3rd, Michael Wagner on Mary Abbottsburn 11th 509181.

Cow three years old or over, with own calf by side:—First, Buckland Farms on Pleasant Rose Leaf 692444; 3rd, Carpenter & Ross on Maxwellton Flower 2d 711366; 4th, Prescott & Sons on Venus Thaxton 570951; 5th, Pangborn on Gaehart 2nd 866195.

Heifer two years old and under three:—First, Buckland Farms on Maxwellton Fancy 6th 837318; 2nd,

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Sired by SEGIS KORNDYKE DENTJLANDER, a 32 lb. son of a twice Michigan State Ribbon winner; her dam 29½ lbs. One these calves from a 30 lb. dam, one a 28½ lb. dam, one a 19 lb. 3 yr. old with only ¼ udder, one 16 lb. 2 yr. old. Two of dams are daughters of King Segis Pontiac, a 37 lb. son of King Segis. Federally tested June 10. Herd under State and Federal supervision. Priced at half value. A. G. WADE, White Pigeon, Mich.

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.

Carpenter & Ross on Dundee Dorothy 924928; 3rd, Schaffner on Missie of Oakdale 2nd 802385.

Junior yearling heifer:—First, Prescott & Sons on Richland Lassie 4th 920052; 2nd, Buckland Farms on Lady of Grandview 909,606; 3rd, Buckland Farms on Brookside Augusta 882919.

Senior heifer calf:—First, Buckland Farms on Vint Hill Mina 1002329; 2nd, Carr Bros. on Bloomdale Miramar (reg. applied for);

Junior heifer calf:—First, Prescott & Sons on Cherry Blossom 3rd 992220; 2nd, Buckland Farms on Vinthill Acorn 1002323; 3rd, Schaffner on Valley Princess; 4th, Pangborn.

Graded herd:—1st, Buckland Farms; 2nd, Carpenter & Ross; 3rd, Schaffner; 4th, Prescott & Sons.

Young herd:—First, Buckland Hall Farm; 2nd, Prescott & Sons; 3rd, Carpenter & Ross; 4th, Schaffner.

Calf herd:—First, Carr Bros.; 2nd, Carpenter & Ross; 3rd, Schaffner.

Four get of sire:—First, Carr Bros. & Co.; 2nd, Buckland Farms; 3rd, Prescott & Sons.

Two produce of cow:—First, Buckland Farms; 2nd, Carpenter & Ross; 3rd, Wagner; 4th, Schaffner.

Herefords.

Bull three years old or over:—First, The Pickering Farm, Belton Mo., on Harlequin 1025000; 2nd, H. E. Schmidt, Columbus, Ohio, on Royal Fairfax; 3rd, F. H. Sanders Farm, Eaton Rapids, Mich., on Fairfax Farmer.

Bull two years old:—First, N. E. Parish, Reading, Pa., on Woodford Lad; 2nd, Pickering Farm on Woodford, Jr.; 3rd, Hill, on Felix Fairfax.

Junior yearling bull:—First, N. E. Parish on Earl Fairfax; 2nd, Pickering Farm on Pickering 14th.

Senior bull calf:—First, Parish on Keystone Fairfax; 2nd, Parish on Duke of Fairfax; 3rd, Pickering Farms on Sensation.

Junior bull calf:—First, Parish on Carlos Fairfax; 2nd, Pickering Farms on Pickering 45th; 3rd, Hill on Peerless Fairfax.

Cow three years old or over:—First, Parish on Donna Woodford 5th; 2nd, Pickering Farms on Princess H.; 3rd, Parish on Lady Donald 1st.

Heifer two years old:—First, Parish on Miss Princess; 2nd, Hill on Effie Fairfax; 3rd, Schmidt on Fannie Fairfax.

Senior yearling heifer:—First, Parish on Tulip Fairfax; 2nd, Pickering Stock Farm on Miss Pickering; 3rd, Hill on Esther Fairfax.

Junior yearling heifer:—First, Pickering Farm on Maple's Lass 146th; 2nd, Parish on Katrina Real; 3rd, Hill on Ada Fairfax.

Senior heifer calf:—First, Parish on Gretchen Fairfax; 2nd, Parish on Emmy Fairfax; 3rd, Parish on Junita Fairfax.

Junior heifer calf:—First, Pickering Farm on Miss Pickering 23d; 2nd, Pickering Farm on Miss Pickering 28th; 3rd, Parish on Frisky Fairfax.

Senior ch. bull, Pickering Farms.

Junior champion bull, Parish.

Senior champion female, Parish.

Junior champion female, Parish.

Grand ch. bull, Pickering Farms.

Grand champion female, Parish.

Exhibitor's herd:—First, Parish; 2nd, Pickering Farms; 3rd, Priddy & Son.

Breeder's herd:—First, Pickering Farm; 2nd, Hill; 3rd, Priddy & Son.

Calf herd:—First and 2nd, Parish; 3rd, Pickering Farm.

Four get of sire:—First, Parish, 2nd, Hill; 3rd, Pickering Farm.

Two produce of cow:—First, Parish; 2nd, Pickering Farm; 3rd, Parish.

Jersey.

Bull three years old or over:—First, Brennan, Fitzgerald & Sinks Jersey Farm, Farmington, Mich., on Actress Raleigh; 2nd, Eardley Bros., Grand Rapids, Mich., on Majesty's Gamboge Lad 2nd; 3rd, Arthur P. Edison, Grand Rapids, Mich., on McKay's Sensational Laddie.

Bull two years old:—First, James S. Stevenson, Washington, Mich., on Noble Beauty's Gamboge Star.

Junior yearling bull:—First, Edison on Majesty Star 2nd; 2nd, Stevenson on Pansy's Oxford Gamboge; 3rd, E. W. Vasvary, Detroit, on Sensational Oxford Gamboge.

Senior bull calf:—First, Brennan, Fitzgerald & Sinks on Lady Fodis Raleigh; 2nd, Eardley Bros. on Majesty's Gamboge Crusoe; 3rd, Edison.

Junior bull calf:—First, Brennan, Fitzgerald & Sinks on Raleigh of Elmgate; 2nd, Edison; 3rd, Eardley Bros. on Majesty's Gamboge Benefit.

Cow four years old or over:—First, Brennan, Fitzgerald & Sinks on Tornos Quien Karnak; 2nd, Edison on Fairy Lad's Jewel; 3rd, Brennan, Fitzgerald & Sinks on Millie's Karnak.

Cow three years:—First, Brennan, Fitzgerald & Sinks on Raleigh Calico Primrose; 2nd, Eardley Bros. on Sul-

tana's Oxford Rosebud; 3rd, Edison on Gamboge Oxford Dainty.

Heifer two years:—First, Eardley Bros. on Majesty's Gamboge Zeta; 2d, Edison on Fawn Raleigh's Lady; 3rd, Stevenson.

Senior yearling heifer:—First, Eardley Bros. on Majesty's Gamboge Sue; 2nd, James S. Stevenson on Dora of Glenburnie; 3rd, Brennan, Fitzgerald & Sinks on Yna of Elmgate.

Junior yearling heifer:—First, Edison on McKay's Sensational Maud; 2nd, Brennan, Fitzgerald & Sinks on Joanna Calahan; 3rd, Stevenson on Hose of Glenburnie.

Senior heifer calf:—First, Brennan, Fitzgerald on Bonnie's Emma Dunn; 2nd, Edison on McKay's Sensational Jewel; 3rd, Eardley Bros. on Majesty's Gamboge Sue 2nd.

Junior heifer calf:—First, Brennan, Fitzgerald on Primrose Joe Marshall; 2nd, Edison on McKay's Sensational Lucy; 3rd, Eardley Bros. on Majesty's Gamboge Azelerd.

Senior champion bull:—Brennan, Fitzgerald; reserve, Stevenson on Noble Beauty's Gamboge Star.

Junior champion bull:—Edison; reserve, Brennan, Fitzgerald.

Senior champion female:—Eardley Bros.; reserve, Brennan, Fitzgerald.

Junior champion female:—Eardley Bros.; reserve, Edison.

Grand champion bull:—Brennan, Fitzgerald; reserve, Edison.

Grand champion female:—Eardley Bros.; reserve, Eardley Bros.

Exhibitor's herd:—First, Brennan, Fitzgerald; 2nd, Eardley Bros.; 3rd, Edison.

Breeder's herd:—First, Edison, 2nd, Brennan, Fitzgerald; 3rd, Stevenson.

Calf herd:—First, Brennan, Fitzgerald; 2nd, Edison; 3rd, Eardley Bros.

Four get of sire:—First, Brennan, Fitzgerald; 2nd, Eardley Bros.; 3rd, Stevenson.

Two produce of cow:—First, Eardley Bros.; 2nd, Brennan, Fitzgerald; 3rd, Edison.

Guernsey.

Bull three years old or over:—First, Jay B. Deutsche, Big Bay, Mich., on John Fancy of Edgewater; 2nd, John Endicott, Birmingham, Mich., on Stais Favorite; 3rd, John Ebels, Holland, Mich.

Bull two years:—First, Endicott on Rosetta's Marshall of Waddington; 2nd, Robert A. Holmes, Grand Rapids, Mich., on Brookmead's Secret King; 3rd, W. J. Brown, Detroit, Mich., on Albamart Premier.

Senior yearling bull:—First, Ebels on Monarch of Olive.

Junior yearling bull:—First, H. W. Wygman, Lansing, Mich., on May King's Prince of Bon Ayre; 2nd, Brown on the Duke of Peaceful Vista; 3rd, Ebels on Starlight of Hazelbank.

Senior bull calf:—First, Scripps; 2d, Wigman on Mollie's Golden Secret; 3rd, Endicott on Meddler of Endicott Farm.

Junior bull calf:—First, Scripps; 2nd, Endicott on Rose's Marshall of Endicott Farm; 3rd, Barbour on Briarbank King Ja.

Cow four years old or over:—First, Holmes on Ashley's Queen; 2nd, Endicott on Comely May Rose K; 3rd, Deutsche on St. Austell Daybreak.

Cow three years:—First, Endicott on Alice of Endicott Farm; 2nd, Wygman on Spottwood's Alma of Bon Ayre; 3rd, Barbour on Lady of Briarbank Parvas Golden.

Heifer two years:—First, Barbour on Groves Bess of Briarbank; 2nd, Wygman on Sepunis Royal Main; 3rd, Deutsche on May Fern of Big Cliffs.

Senior yearling heifer:—1st, Brown; 2nd, Wygman on Wilma of Bon Ayre; 3rd, Holmes on Wilhelm Annette.

Junior yearling heifer:—First, Wygman on Bellwoods Mane of Bon Ayre; 2nd, Abels on Gladys of Olive; 3rd, Wygman on Boda of Bon Ayre.

Senior heifer calf:—Wygman on Evelyn of Bon Ayre; 2nd, Barbour on Lilly of Briarbank 2nd; 3rd, Ebels on Nancy N. of Olive.

Junior heifer calf:—First, Wygman on Wilmas Sister of Bon Ayre; 2nd, Wygman on Jonestas Fancy; 3rd, Holmes on Wilhelm Kattie.

Senior champion bull:—Endicott, reserve, Deutsch.

Junior champion bull:—Ebels, reserve, Scripps.

Senior champion female:—Holmes; reserve, Endicott.

Junior champion female:—First and reserve Wygman.

Grand champion bull:—Endicott; reserve, Ebels.

Grand champion female:—Holmes; reserve, Wygman.

Exhibitor's herd:—First, Endicott, 2nd, Barbour; 3rd, Ebels.

Breeder's herd:—First, Wygman; 2nd, Ebels; 3rd, Scripps.

Calf herd:—First, Wygman, 2nd, Scripps; 3rd, Barbour.

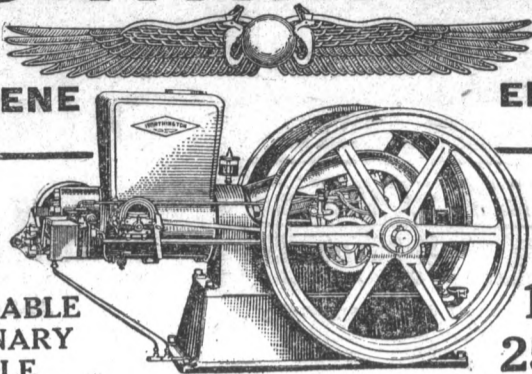
Four get of sire, at least three fe-

WORTHINGTON

KEROSENE

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DEPENDABLE
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PORTABLE



1½ to
25 h.p.

At The Fairs, Too.

WORTHINGTON Throttling Governor Kerosene Engines took first place in the minds of the buyers. Their simple, sturdy appearance and smoothness of operation, using common kerosene, the cheapest fuel, are what appealed most. They were carefully inspected and stood every test.

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Holstein-Friesian Cattle

We breed them to sell. If you are looking for seed stock, we have it.

John H. Winn, [Inc.]

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.

"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.

Our herd is rich in the blood of Colantha 4th the Johanna, the only cow that over held all world's records in every division from one day to one year at the same time. She produced 651.70 lbs. milk in 7 days. We are offering for sale a bull, whose dam exceeds this record by over 7½ lbs. in 7 days.

His dam's records are:—
Milk 1 Day 100.1 lbs.
Milk 7 Days 659.3 lbs.
Butter 7 Days 26.31 lbs.

His name is **KING VALE CORNUCOPIA WAYNE**, No. 312599 Born February 6, 1920

His dam and sire's two nearest dams average
Butter 7 Days 33.02 lbs.
Milk 7 Days 607.3 lbs.

Handsomely marked about one third white.
\$250.00 f. o. b. Howell.

McPHERSON FARMS CO., Howell, Mich.

All herds under U. S. Supervision.

A BLUE RIBBON WINNER YOUNG BULL

On the 1921 Show Circuit For Sale at a low price. Out of an A. R. O. granddaughter of Pontiac Kordyke. Sired by our SENIOR SHOW BULL, Model King Segis Glista 32 37 lbs.

GRAND RIVER STOCK FARMS,

Corey J. Spencer, Owner
111 E. Main Street, Jackson, Michigan.

Herd Under State and Federal Supervision

Only 2 Sons Of "Maplecrest" For Sale

Old price list cut ½ to ¾ for prompt sale.

No. 1. 18 mos. old—Dam 19 lbs. 3 yr. old, next dam 20 lb. 3 yr. old. \$100.00.

No. 2. 15 mos. old—Dam 22 lbs. 4 yr. old sister to two 1000 lb. cows. \$150.00.

No. 4. 17 mos. old—Sired by my 30 lb. Jr. Herd Sire. Dam a 24.9 lb. 4 yr. old daughter of "Maplecrest," with 15,850 lbs. milk and 714 lbs. butter in a year at 3 yrs. \$250.00.

Don't delay—They sell at these prices. Pedigrees on application.

R. B. McPHERSON, Howell, Mich.

Reg. Holsteins for sale at all times either sex. Bulls or heifers, prices reasonable. Write or come and see them.

HENRY S. ROHLFS, R. L. Akron, Mich.

Reg. Holsteins and Berkshires, most any age, either sex, priced according to other commodities. Write or come.

B. B. REAVEY, Akron, 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.

WITH NO OUTLET FOR MILK

owing to closing of milk station I will sell my entire herd of 20 fine large Holsteins (not registered) price \$1700. **JAMES N. McBRIDE,** Burton, Michigan.

Reg. Holstein Bull 18 mos. old. Good individual and extra well bred. Dam has record of 21 lb. bu. 533 lb. milk in 7 days. Price \$150. Send for full particulars. **Merle H. Green,** Ashley, Mich.

Herefords

20 Cows of extra quality and breeding, 12 of them bred to our \$5200.00 son of Old Repeater, also bulls not related.

Allen Bros. Paw Paw, Mich.

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CATTLE

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

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.

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

Jersey Bulls For Sale ready for service from R. of M. dams. T. B. tested. Will give time.
SMITH & PARKER, R. 4, Howell, Mich.

BIDWELL SHORTHORNS
BUY A BULL

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

BIDWELL STOCK FARM,
Box D, Tecumseh, Michigan

Richland Shorthorns

We offer a few choice Scotch heifers with calves at foot. This is good foundation stock and the calves are all from top sires. Prices reasonable. Write your wants and see the cattle.

C. H. PRESCOTT & SONS,
Office at Tawas City, Mich., Herd at Prescott, Mich.

The Maple's Shorthorns

Kirklevington Lad, by Imp. Hartford Welfare, in service. Stock for sale.

J. V. WISE, Gobleville, Mich.

Shorthorns. Bull calves for sale from the best milking blood obtainable.
ROSEMARY FARMS, Williamston, Mich.

BUY SHORTHORNS of Central Michigan Shorthorn Breeders' Association at farmers' prices. Write for sale list to M. E. Miller, Sec'y, Greenville, Mich.

Shorthorn Bull calf for sale from Imp. dam. Sire Cumberland bred from Imp. dam.
J. A. BARNUM, Union City, Mich.

We now have
FIVE BRED HEIFERS

that we will sell cheap if taken at once. Inquire about them or better come and see them.
CARR BROS. & CO., Bad Axe, Mich.

Francisco Farm Shorthorns

and BIG TYPE POLAND CHINAS. Now offering 3 heifers, 2 bulls, all Scotch. Sows to farrow in Aug. and Sept. Spring pigs. 60 head to choose from.
POPE BROS. CO., Mt. Pleasant, Mich.

Milking Shorthorns, accredited herds, males and females, low prices. Davidson and Hall, Beland and Beland, Tecumseh, Mich.

Shorthorn Bull For sale. Fames Pride 724792. 3 yrs. old; roan. Very gentle and a fine specimen of the breed. Price \$200. W. E. Bartley, Alma, Mich.

See Us At The Fairs
with our Red Polled Cattle.
WESTBROOK BROS., Ionia, Mich.

FOR SALE Reg. Red Polls, bulls and heifers, priced reasonable.
BEN JOHNSON, Cedar Springs, Mich.

HOGS

Berkshire spring pigs, either sex, \$10, \$12 and \$15 according to age. Also fall gilts and yearling sows.
CHASE STOCK FARM, Marlette, Mich.

Duroc Jerseys A few extra good fall boars, and a choice lot of spring boars of the heavy boned type popular blood lines at reasonable prices.
DRODT & BERNIS, Monroe, Mich.

Chester Whites Choice March boars; new blood for old customers; cholera immunized; price right. F. W. Alexander, Vassar, Mich.

Brookwater Duroc Jerseys

SPRING BOARS sired by Panama Special 55th, Big Bone Giant Sensation and Brookwater Demonstrator. The best of the breed. Order one by mail or come to the farm. You will like them when you see them. Prices reasonable.

BROOKWATER FARM, Ann Arbor, Mich.
H. W. Mumford, Owner J. B. Andrews, Mgr.

DUROC JERSEYS: A few choice bred gilts for sale.
OAREY U. EDMONDS, Hastings, Mich.

Duroc Jerseys

Gilts bred for fall farrow at reasonable prices.
RUSH BROS., Oakwood Farm, Romeo, Mich.



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

Woodlawn Farm Duroc hogs are from select breeding stock, well mated for size, type and color. Herd boars, sows and pigs, will ship C.O.D. and furnish Reg. certificate. W. E. Bartley, Alma, Mich.

PEACH HILL FARM

Offers gilts sired by or bred to
Peach Hill Orion King 152489
INWOOD BROS., Romeo, Michigan

DUROC SOWS and gilts bred to Orion King No. 169259 Son of the \$10,000 boar owned by Longview Farm, Le Summit, Mo. also young boars ready for service, out of good sows. Apply
THE JENNINGS FARM, Bailey, Mich.

Fifth Annual Offering

Shorthorn Cattle

By the

Southern Michigan Shorthorn Breeders' Association

At

Hillsdale Fair Grounds
Tuesday, Oct. 4, 1921

The Offerings in this Sale Consist Of:

28 Cows and Heifers
2 Bulls

Scotch and Scotch Topped Breeding

This 1921 Sale by the Association is Made
Up of Strictly High-Class Individuals

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John Southworth, Sec.-Treas.,
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Allen, Michigan

O. I. C. HOGS

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

CRANDELL'S PRIZE HOGS, Cass City, Mich.

Collinsdale Duroc Jerseys
Lyons, Mich. R. 1, L. A. Burhans, Owner

Herd Boars
Wolverine Pathfinder by Pathfinder
Wolverine Sensation by Great Orion Sensation.
Wolverine Renown Wonder by Great Wonder IAM
Fall boar and gilts by the Sensation boar.
100 spring pigs from these boars.
Herd Sows breeding
O. C. K., Pathfinder and Big Bone Giant.

Duroc Have some choice spring boars sired by Great King Orion Col. No. 189045, double immune, priced reasonable. HARRY FOWLER, Sturgis, Mich.

Sows Bred to Michigan Orion Sensation (a great son of Great Orion's Sensation) and Michigan Demonstrator (one of largest and best boars in Michigan) for sale at conservative prices. Also grower strong boars and gilts.
Michigan Farm, Pavilion Mich., Kalamazoo, Co.

O.I.C's Choice gilts for April and May farrow, also fall pigs. Booking orders for spring pigs.
A. J. BARKER & SON, Belmont, Mich.

DUROC JERSEYS

spring boars that will improve your hogs, of Orion Cherry King, Col. and Pathfinder breeding, at reasonable prices. Write your wants. Bred sows and gilts all sold.
W. C. TAYLOR, Milan, Mich.

DUROC JERSEYS Am booking orders for fall pigs.
E. D. HEYDENBERG, Wayland, Mich.

O. I. C's. one yearling boar, last fall gilts bred for next fall farrow; this spring pigs not akin, big growthy stock, reg. free. City's phone. 1/4 mile west of Depot, OTTO B. SCHULZE, Nashville, Mich.



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 six months old. Write for my plan—More Money from Hogs.
G. S. BENJAMIN, R. F. D. 10, Portland, Michigan

O. I. C's choice boars and spring pigs at farmers' prices.
CLOVER LEAF STOCK FARM, Monroe, Mich.

O. I. C. and Chester White Swine. Strictly Big Type with Quality. I am sold out of everything but Spring pigs. Have the finest lot I ever bred. Meet me at the State Fair and other leading fairs of the State. And see a sample of our hogs and pigs.
NEWMAN'S STOCK FARM, R. 4, Marlette, Mich.

O. I. C's. Special prices on spring stock. Must be sold to make room. WEBER BROS. Phone R. O. 408, 10 mile Rd. W., Royal Oak, Mich.

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

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

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

O. I. C's. Bred sows and gilts, boars ready for service and open gilts. All at farmers' prices. Orders taken now for baby pigs. Prize winners. Utility stock. Cholera-immune. Registered in buyers name. Write for pedigrees and price list. Lone Elm Farm, EARLE R. MORRISH, R. 6, Flint, Mich.

O. I. C. GILTS Bred for June and July farrow.
H. W. MANN, Danville, Mich.

O. I. C's. One yearling boar left. April farrow.
PETERSON, R. 2, Ionia, Mich. Elmhurst Farm.

L.T.P.C. \$15, \$20 & \$25

Our top notch stretchy boar pigs are weaned and ready to ship. They are sired by such boars as Harts Block Price Cline's Big Bob, Right Kind Olan and Leonard's Big Bob. HART, FULCHER AND CLINE, Address F. T. Hart, St. Louis, Mich.

LARGE TYPE POLAND CHINAS

Spring pigs of either sex. Sired by F's Clansman Grand Champion Boar 1920 and by Smooth Buster 1st Jr. Yearling 1920. Priced to sell. Write or see them. A. A. Feldkamp, R. 2, Manchester, Mich.

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

Big Type Poland China Boars Ready for stretchy fellows. Grandsons of Gertsdale Timm, weighing better than 300 lbs., also spring pigs. Grandsons of Leonard Bib Bob. Satisfaction guaranteed. Call or write. DORUS HOVER, Akron, Michigan

Sows bred for spring litters all sold. Have some choice gilts bred for Aug. litters, also some Sept. boars for sale. Clyde Fisher, R. 3, St. Louis, Mich.

males:—First, Wygman; 2nd, Ebels; 3, Barbour.

Two produce of cow:—First, Wygman; 2nd, Ebels; 3rd, Holmes.

Ayrshire.

Bull three years or over:—First, Wm. H. Murphy, Birmingham, Mich., on Willowbank Lorr's Mayor; 2nd, Halsey Erard, Deckerville, Mich., on Prince B. of River Ranch.

Yearling bull:—First, Shuttleworth Bros., Ypsilanti, Mich.; 2nd, Erard on Laddie of Side Hill; 3rd, Erard on Duke of Side Hill.

Senior bull calf:—First, Shuttleworth Bros. on Betty's Dandy; 2nd, Shuttleworth Bros. on Roger; 3rd, Erard.

Junior bull calf:—First and 2nd, Erard; 3rd, Shuttleworth Bros. on James. Cow four years or over:—First, Wm. H. Murphy on Steel Kilbourne; 2nd, Murphy on Imp. Millerston Cherry; 3rd, Murphy on Gay Lass of Oakdale 3rd.

Cow three years or over:—First, Murphy on Springburn Girlie; 2nd, Shuttleworth Bros. on Pride 3rd.

Heifer two years:—First, Shuttleworth Bros. on Bluebell 3rd; 2nd, Murphy on Lessnessock Mary; 3rd, Shuttleworth Bros. on Betty of Norlands.

Yearling heifer:—1st, Shuttleworth on Bluebell 4th; 2nd, Shuttleworth on Pride 5th; 3rd, Murphy on Phoebe of Deep Dale.

Senior heifer calf:—First, Shuttleworth Bros.; 2nd, Shuttleworth Bros. on Blue Bell 5th; 3rd, Erard on Snow Ball of Deckerville 2nd.

Junior heifer calf:—First, Shuttleworth Bros. on Pride 6th; 2nd, Shuttleworth Bros. on Blue Bell; 3rd, Murphy on Frieda of Deep Dale.

Senior champion bull:—Murphy.

Junior champ. bull:—Shuttleworth.

Senior champion female:—Murphy.

Junior champion female:—Murphy.

Grand champion bull:—Murphy.

Grand champion female:—First and reserve, Murphy.

Exhibitor's herd:—First, Murphy; 2nd, Shuttleworth; 3rd, Erard.

Breeder's herd:—First, Shuttleworth Bros.; 2nd, Erard.

Calf herd:—1st, Shuttleworth Bros.; 2nd, Erard.

Four get of sire:—First, Shuttleworth Bros.; 2nd, Murphy, 3rd, Erard.

Two produce of cow:—First, Murphy on Steel Kilbowie; 2nd and 3rd, Shuttleworth Bros.

Brown Swiss.

Bull three years old or over:—First, L. S. Marshall & Son, Leslie, Mich., on Nellie's Stasis; 2nd, A. E. Bower, Cleveland, Ohio, on Nicks Prize Master.

Bull two years old:—First, Marshall on Brownies Stasis.

Yearling bull:—First, Marshall on Herbert M.; 2nd, Bower on General of Sedgley.

Senior bull calf:—First, Marshall on Styx's Stasis; 2nd, Bower on Betty's Nick; 3rd, Bower on Ethel's Nick.

Junior bull calf:—First, A. Oliver Bower, Bushton, Ill., on Prim Nick; 2nd, Bower on Forest of Bower Farm; 3rd, Marshall on Buena F 2nd's Stasis.

Cow four years or over:—First, Bower on Betty of Lakeview; 2nd, Marshall on Betsy Girls Bravisa; 3rd, Bower on Ethel of Lakeview.

Cow three years or over:—First, Marshall on Styx; 2nd, Bower on Elsie 4th of Lakeview.

Heifer two years:—First, Bower on Lou Anna of Lakeview; 2nd, Marshall on Styx 3rd; 3rd, Bower on Nicks Alice C.

Yearling heifer:—First, Bower on Kathryn of Bower Farm; 2nd, Marshall of Fairview Betay M; 3rd, Bower on Lilly Willis.

Senior heifer calf:—First, Bower on Elsie First; 2nd, Marshall on Valley Girls Lois; 3rd, Bower on Nicks Cleveland Bell.

Junior heifer calf:—First, Marshall on Styx 2nd Beauty; 2nd, Bower on Hicks Duchess; 3rd, Marshall on Ursula's Beauty.

Senior champion bull:—Marshall on Nellies Stasis; reserve, Marshall on Brownies Stasis.

Junior champion bull:—Bower on Prim Neck.

Senior champion female:—Bower on Lorana Lakeview; reserve, Bower on Betty of Lakeview.

Junior champion female:—Bower on Elsie I of Bower's Farm; reserve, Marshall on Styx 2nd Beaut.

Grand champion bull:—Marshall on Nellies Stasis; reserve, Bower on Prim Nick.

Grand champion female:—Bower on Lonan of Lakeview, reserve, Bower on Elsie First.

Exhibitor's herd:—First, Bower; 2nd and 3rd, Marshall.

Breeder's herd:—First and 2nd, Marshall.

Calf herd:—First, Bower; 2nd and 3rd, Marshall.

Four get of sire, at least three fe-

ales:—First and 2nd, Bower; 3rd, Marshall.

Two produce of cows:—First, Marshall; 2nd, Bower on Kate 2094 Katherine 2095; 3rd, Bower on Elsie 3rd, Llsie 4th.

Galloway.

Bull three years or over:—First, James Frantz, Bluffton, Ohio, on Pride Othello 3rd; 2nd, W. M. Vines, Howell, Mich., on Royal King.

Senior yearling bull:—First, Frantz on Sir Pife Hensol.

Junior yearling bull:—First, Frantz on Hensol; 2nd, Vines on Scottish Standard.

Senior bull calf:—First, Frantz on Dean Othello 4th; 2nd, Vines on M G's Pride.

Junior bull calf:—1st, Frantz Bros. on Scottish Gamin 1st; 2nd, Vines on Prince Othello.

Cow three years or over:—First, Frantz on Carlota L. F.; 2nd, Vines on Pride of Ours; 3rd, Vines on Wynetta.

Heifer two years:—First, Frantz on Scottish Erma; 2nd, Vines on Evangeline; 3rd, Vines on Genevieve.

Senior yearling heifer:—1st, Frantz on Misty; 2nd, Vines on Maid of Othello; 3d, Vines on Florence Shangron.

Junior yearling heifer:—Frantz on Dortha 2nd.

Senior heifer calf:—First, Frantz on Belle Othello 4th; 2nd, Frantz Bros. on Miss Gamin; 3rd, Vines on Scottish Model.

Junior heifer calf:—First, Frantz on Belle Othello 5th; 2nd, Vines on Scottish Queen.

Senior champion bull:—Frantz.

Junior champion bull:—Frantz.

Senior champion female:—Frantz.

Junior champion female:—Frantz.

Grand champion bull:—First, Frantz on Pride Othello 3rd; 2nd, Frantz.

Grand champion female:—Frantz.

Exhibitor's herd:—First, Frantz; 2nd, Vines.

Breeder's herd:—First, Frantz; 2nd, Vines.

Calf herd:—1st, Frantz; 2nd, Frantz Bros.; 3rd, Vines.

Four get of sire:—First, Frantz; 2nd, Frantz Bros.; 3rd, Vines.

Two produce of cow:—1st, Frantz; 2nd, Frantz Bros.; 3rd, Vines.

Holstein.

Bull three years old or over:—First, E. H. Halsey, Pontiac State Hospital on Flint Hengerveld Lad; 2nd, W. F. Spitles and James Hogson, Owosso, Mich.; on Flint Maple Crest Ona Lad; 3rd, Detroit Creamery Co., Mt. Clemens, Mich., on Kin Dora Segis Pontiac.

Bull two years old:—First, Lenawee County Holstein Assn., on Pabst Iris Korndyke; 2nd, Lenawee County Holstein Assn., on Swastika Dekol Buckeye; 3rd, Corey J. Spencer, Jackson, Mich., on Pershing DeKol Segis Glista.

Senior yearling bull:—First, Pontiac State Hospital on Pontiac Harding Korndyke; 2nd, Lenawee County Holstein Assn., on Swastika Ormsby Hope; 3rd, Spencer on Spenter Dahlia Segis Glista.

Junior yearling bull:—First, C. E. Winne, Adrian, Mich., on Maple City King Lyons; 2nd, Spencer on King Valdessa Pietje; 3rd, Lenawee County Holstein Assn., on Prince Segis Lyons Canary.

Senior bull calf:—First, Lenawee County Boys' and Girls' Club on Swastika Ona Alexis; 2nd, Pontiac State Hospital on Edison Korndyke; 3rd, Lenawee County Holstein Assn., on Sine Risinghurst Crown Prince Dam Juffrow Gypsy George Elliott.

Junior bull calf:—First, Lenawee County Boys' and Girls' Club; 2nd, Winn on Winnwood Maplecrest Veeman Burke; 3rd, Pontiac State Hospital on Pontiac Nathan Hengerveld.

Cow four years or over:—First, Michigan School for Deaf, on Thornapple Veeman, Pride; 2nd, Michigan School for Deaf on Mercedes Beets Segis of Eden; 3rd, Lenawee County Holstein Assn., on Rachel Canary Winona Pet.

Cow three years:—First, Pontiac State Hospital on Pontiac Maude; 2nd, Lenawee County Holstein Assn., on Beauty Wayne De ol Korndyke; 3rd, Buth on Cobia Johanna Scott.

Two-year-old heifer (in milk):—1st, Buth on Starlight Veenan Hengerveld; 2nd, Shiawassee County Exhibit on Bethel Pontiac Hartog Scott; 3rd, Shiawassee Exhibit on Blanche Abbekesk Korndyke.

Two-year-old heifer (never freshened):—First, Musolf Bros., on Lowland Dolly Johann; 2nd, Lenawee County Holstein Assn., on Ineddy Mate; 3d, Wernett & Son on Ann DeKol Segis Polkadot.

Senior yearling heifer:—First, Lenawee County Boys' and Girls' Club on Maple City Pontiac; 2nd, Lenawee County Holstein Assn., on Swastika Ormsby Lady; 3rd, Lenawee County Holstein Assn., on Mercedes Queen Lyons.

(Continued on page 299).

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WED. OCT. 5th, 1921; 1.30 P. M.

Hillsdale Co. Fair Grounds

38 HEAD BOARS AND GILTS—38



H's Lady Clan 1074748 Grand Champion Jr. Sow, Dam of part of this offering



Peace and Plenty 439807. Herd sire. His pigs winning 2 Sr. Boar Pig, 2-3-5 Jr. Boar Pig, 1-2-5-8 Jr. gilt, also 1st get of sire at State Fair

Pigs from Grand Champion Sow, Sr. Champion Sow and other extra good dams will go in this offering. Look at the report in the Farmer of my winnings and you will be convinced you will want one of these pigs in your herd. Every pig cholera immuned.

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CATTLE

JERSEY BULLS For Sale bulls ready for service. Raleigh, Majesty, Oxford Lad breeding.
WATERMAN & WATERMAN, Ann Arbor, Mich.

HOGS

L. S. P. C. a few choice boars at farmers prices, bred gilts all sold. Also a grandson of The Olanman and Harrison Big Bob.
H. O. SWARTZ, Schoolcraft, Mich

Big Type Poland Chinas. A great litter by Checkers; dam a grand-daughter of Giant Buster, are for sale now. They were farrowed Mar. 11, and were purchased of Jim Bloemendaal, Alton, Ia. In dam. Do you want the best the breed produces? Come over and see them.
Wesley Hile, Ionia, Mich.

FOR SALE:—A wonderful yearling boar fine spring boars, fall pigs. Can satisfy your wants in any thing from suckling pigs to Mature Herd boars and sows. Public Sale November 10th.
YOUNG BROS., Niles, Mich.

L. T. P. C. The best blood of the breed. Write for description of my yearling sow and six pigs \$75.00. Spring boars \$40.00, fall pigs both sex.
J. J. JEFFERY, Kingston, Mich.

Leonard's Big Type P. C. the kind that make good Spring boars, fall pigs, at private sale. Public sale October 27, write for catalogue.
E. R. LEONARD, St. Louis, Mich.

BIG TYPE Poland Chinas, leading strains at lowest prices. Both sex, all ages, and bred sows and gilts.
G. A. BAUMGARDNER, R. 2, Middleville, Mich.

L. T. P. C. Nothing for sale at present. Thanks to my customers.
W. J. HAGELSHAW, Augusta, Mich.

P. C. swine, large type, March and Apr. pigs. Sired by "King Wonder", for sale. Sent out on approval.
R. W. MILLS, Saline, Mich.

Poland Chinas 3 high class boars 4 mo. old from daughter of Big Bob Mastodon. \$15 registered.
FERNWOOD FARM, Ewart, Mich.

Hampshire bred gilts now ready for Aug and Sept. farrow; spring and fall boars pig at a bargain.
JOHN W. SNYDER, R. 4, St. Johns, Mich.

SHEEP

INGLESIDE SHROPSHIRE

During the past 30 years Ingleside Farm has produced over a 1000 Shropshires of sustained excellence, but never before have we been able to present to our widening circle of satisfied customers such an attractive offering of Shropshires of all ages.

In rams we have a strong assortment of lambs, yearlings and aged rams—splendid individuals of the choicest breeding obtainable. We have young ewes of quality for exhibition or foundation stock. We can supply 2 or 3 fitted flocks for show at county fairs. Write your wants—or better yet, come and inspect this stock personally.

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60 Head Registered Shropshire ewe and ram lambs also yearling rams good size and type. Priced to sell. Established 1890.
O. LEMEN, Dexter, Mich.

Idlewild Stock Farms offer for sale thirty Shropshire and Leicester rams and ewes. See our exhibit at Detroit, Jackson, Adrian, and Hillsdale Fairs.
C. J. MIDDLETON, Proprietor, Clayton, Mich.

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Shropshire and Hampshire Sheep are of that quality and conformation that guarantees the sale each year of more than 200 Rams to the better farmers of Mich. The day of the scrub ram is past. Come to the farms eleven miles south of Coldwater and pick a good one at a reasonable price or we will ship and guarantee satisfaction. No fails this year. S. L. WING, Coldwater, Mich.

25 Shropshire Ewes cheap 1 Minton Ram 5 yearlings
DAN BOOHER, R. 4, Ewart, Mich.

Maple Lawn Farm Shropshires, rams and ram lambs of choice breeding. Woolled from nose to toes. A. E. BACON & SON, Sheridan, Mich.

Shropshires 7 yearling rams also ram and ewe lambs. Butter and Senator Bibb by breeding.
C. J. Thompson, Rockford, Mich.

Shropshires—Yearling and lamb rams with quality, Sired by an imported Winton ram. Write for prices and description.
W. B. McQuillan, Howell, Mich.

Straight Brook Hampshire Downs

For Sale: 30 yearling rams, 30 ram lambs including real flock headers. We also have to offer ewes of all ages.
J. B. Welsh, Mgr., STRAIGHT BROOK STOCK FARM, R. 1, Ionia, Mich.

Reg. Hampshire Rams all ages. Bred and priced right. Also reg. ewes all ages.
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FOR SALE 30 yearling Delaine Rams; at farmers prices.
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HORSES

FOR SALE A Carload of Grade Draft Colts.
CHARLES BRAY, Okemos, Ingham Co., Mich.

LATEST MARKET REPORTS

GRAIN QUOTATIONS

Tuesday, September 20.

Wheat.

Detroit.—Cash No. 2 red \$1.29; No. 2 mixed \$1.26; No. 2 white \$1.26.
Chicago.—No. 2 red \$1.28½; No. 2 hard \$1.27; September \$1.28.
Toledo.—Cash No. 2 red \$1.30; September \$1.30; December \$1.35.

Corn.

Detroit.—Cash No. 2 yellow 57½c; No. 3 yellow 56½c; No. 4, 53½c.
Chicago.—No. 2 mixed 53½@53¾c; No. 2 yellow 53¼@54c.

Oats.

Detroit.—Cash No. 2 white 41c; No. 3 white 38½c; No. 4 32½@35½c.
Chicago.—No. 2 white 37½@38½c; No. 3 white 35¼@36¼c.

Beans.

Detroit.—Immediate and prompt shipment \$4.50 per cwt; October \$4.60.
Chicago.—The market is steady and higher. Hand-picked Michigan beans choice to fancy \$5.33½@5.50; red kidney beans \$10.50.
New York.—The market is steady. Choice pea \$5.50; do medium \$5.50; kidney \$11.75@12.

Rye.

Detroit.—Cash No. 2 \$1.05.
Chicago.—No. 2, \$1.07.
Toledo.—Cash \$1.02.

Seeds.

Detroit.—Prime red clover, cash and October \$12.25; alsike \$10.50; timothy \$2.75.
Toledo.—Prime red clover \$12.50; alsike \$10.75; timothy \$2.50.

Hay.

Detroit.—No. 1 timothy at \$20@21; standard and light mixed at \$18@20; No. 2 timothy \$18@19; No. 1 clover mixed \$15@16; No. 1 clover \$14@15; rye straw \$13.50@14; wheat and oat straw \$12@12.50 per ton in carlots at Detroit.

Feeds.

Detroit.—Bran \$22; standard middlings \$23; fine middlings \$28; cracked corn \$28.50; coarse cornmeal \$26; chop \$22.50 per ton in 100-lb sacks.

WHEAT

After three weeks of advancing prices the wheat market suffered a reversal during the past week and loss over half of its recent gains. In Argentine prospects improved materially and the movement of Canadian wheat is still increasing and prices in that market have been depressed considerably. The visible supply in this country, which was decreased temporarily is now increasing again. In addition to these factors, it is said that the European market can not absorb at once all the supply which has been contracted for. Some reselling of American wheat abroad was reported also. The succession of bearish views last week unsettled the market and even more serious setbacks in prices would not be surprising, especially in view of European financial conditions. On the other hand, there is a strong prospect of higher prices later in the crop year when the supply in sight has become more attenuated.

CORN

Although receipts at the primary markets are still large country offerings of old corn are decreasing. For two months the movement has been the largest on record for the season and many country cribs have been emptied. In spite of the heavy run the visible supply in terminal elevators has been materially reduced, showing that the consumptive demand is exceptionally broad. Export buying has dwindled in the last few days due partly to the weakness in foreign exchange. The Argentine surplus is only half what it was at this time a year ago and large export sales from this country are expected to continue throughout the coming year. Although prices are nearly the lowest of the season, there is little prospect of a material advance for months.

OATS

The export demand for oats which has been expected for several months showed signs of development during Switzerland made inquiries but no sales have been reported. Receipts are the past week at a time when exporters were inactive in the wheat and corn markets. Germany, Holland and

lighter than a year ago, but thus far the visible supply at terminals has not started to decline and is now about twenty-five per cent larger than ever before.

SEEDS

Reports of the department of agriculture indicate that the red clover seed crop will be from 30 to 40 per cent lighter than that of last year. Alsike shows a reduction of 20 to 30 per cent. The timothy seed crop is light but it is much higher in quality than a year ago. Timothy seed has been marketed with unusual rapidity since harvest and there are signs that clover seed producers will follow the same tactics.

FEEDS

Feed markets are quoted as steady, although the volume of trade is small. Storage stocks are liberal and excellence of pastures curtails demand. The shortage of feedstuffs in Europe is reflected in export demand for bran and shorts as well as for the seed meals.

HAY

Hay markets generally are dull and quiet although light receipts caused small advances at some markets and southern demand shows slight improvement. There have been some inquiries in the east for export.

POULTRY AND EGGS

Both poultry and egg prices have been comparatively steady for several weeks, but last week egg prices advanced in spite of receipts at leading cities running about 25 per cent larger than a year ago. Poultry prices, on the other hand, declined and further losses are expected during the next few weeks when receipts are heavy. The preliminary report on cold storage holdings of eggs on September 1 was 7,234,000 cases compared with 6,372,

000 cases on the same date last year. This is the largest supply for that date on record with the exception of 1919, when 7,648,946 cases were reported.

Chicago.—Eggs fresh firsts 32@34c; ordinary firsts 28@29c. Poultry, springs 22c; hens, general run 24c; roosters 16c; ducks 23c; geese 20c; turkeys 35c.

Detroit.—Fresh candled 31@33½c a dozen. Poultry, hens 24@25c; roosters 13@14c; turkeys 30c; ducks 20@22c; geese 15c.

BUTTER

In spite of an increase of about ten per cent in the receipts of butter at the leading markets last week, fancy grades were scarce and prices advanced sharply. Medium and undergrades were dull and hard to move and accumulate on the market. The preliminary report on cold storage holdings on September 1 showed 93,946,000 lbs. or nearly 22,000,000 lbs. less than at this time a year ago and the smallest for the season since 1915. The five-year average is 110,326,000 lbs. This report was a factor in the strength of the market. Toward the close of the week demand slackened, especially in the east. There were reports also of Danish butter on the way. The general outlook is fairly strong but numerous setbacks from time to time can be expected. Prices for 92-score fresh butter were: Chicago 42c; New York 44c. In Detroit fresh creamery in tubs was quoted at 35@36½c.

POTATOES

The fall movement of potatoes is under way, shipments for the entire United States averaging nearly 1,000 cars daily. Prices are about 50c per hundred weight lower, with eastern points showing less weakness than the middle west. Eastern consuming markets are quoted at about \$3.75@4.75

per 150-lb. sack for No. 1 grades. At Detroit, Michigan potatoes sell for \$4.25@4.75 per 150-lb. sack.

BEANS

After advancing to \$5.10 per cwt. for choice hand-picked stock f. o. b. Michigan points, the bean market has reacted slightly to \$4.85 for prompt shipment. Orders are being taken for new beans, which will begin to move in another week or two, at 15@25c higher than old stock. Severe damage from rains recently has been reported. Demand was checked when the price passed \$5 but has developed again on the decline.

WOOL

Wool markets remain on about the same basis as they have been for several weeks. Prices are firm with demand showing a slight tendency to turn toward the lower grades. Foreign auctions continue strong and the slight weakness in the goods markets seems to have disappeared. The Boston market is quoted as follows: Ohio and Pennsylvania fleeces, delaine unwashed 31@33c; fine unwashed 26@29c; half-blood combing 29@30c; three eighth blood combing 25@26c.

Michigan and New York, delaine unwashed 31@32c; fine unwashed 26@27c; half-blood unwashed 28@29c; three-eighth blood unwashed 25@26c; quarter-blood unwashed 22@24c.

DETROIT CITY MARKET

The Municipal Bureau of Markets reports that cucumbers and small pickles moved fairly well with prices higher. The liberal supply of potatoes started out slowly at first, but later sold fast at \$1.75 per bushel for the best stock. Tomatoes flooded the market and considerable quantities were left over for the next day.

Apples \$1.50@2.50; beans 75c@1.50 bu; beets new \$1 16-30 bunches, bushel 75c@1.25; cabbage 75c@1.25 bu; carrots new \$1 15-24 bunches; bushel \$1 @1.50; celery local all sizes 25c@1 doz; cucumbers large size 50c@1; smaller \$1@3.50 bu; pickles 40@75c hundred; corn green 50@75c, 4 to 6-dozen sack; eggs, wholesale and retail 45@60c; leaf lettuce at 50@75c bu; muskmelons all sizes \$1@3 bu; onions dry \$1.50@2.25 bu; potatoes new at \$1.50@2 bu; pears \$2@3.50 bu; poultry live springers 28@30c; radishes red 50c@1 bu; spinach 50c@1 bushel; squash summer 40@50c; Hubbard \$1 @1.50 bu; tomatoes Nos. 1 and 2, 75c @2.50; watermelons 75c@1 bu.

GRAND RAPIDS

Fall and winter apples, last pickings of grapes and peaches, and early and late potatoes, were the center of trading on the city markets this week with prices steady to higher. Quotations were as follows:

Apples, hand-picked \$1.50@2.50 bu; windfalls and wormy \$1@1.50 per bu; peaches \$3@4 bu; pears \$2@2.50 bu; grapes \$3@3.75 bu; quinces \$3@4 bu; cantaloupes \$1@1.75 bu; watermelons 90c@3 dozen.

Potatoes No. 1 white \$1.35@1.40 bu; No. 2 white \$1 bu; dry onions \$1.50@2 bu; celery \$1@1.50 box; head lettuce \$1@1.25 box; carrots \$1 bu; turnips \$1 bu; beets \$1 bu; tomatoes 50c@1 bu; Hubbard squash and pumpkins \$1 bushel.

Grain.—Wheat, No. 1 red \$1.11 bu; No. 1 white \$1.08 bu; rye 85c bu; barley 70c bu; oats 44c bu; corn 63c bu; buckwheat \$1.75 per cwt; beans, white pea \$3.75@4 per cwt; red kidney at \$8.50@9 per cwt.

GREENVILLE POTATO MARKET.

Harvest of the early potato crop was nearing completion this week with truckers from many Michigan cities here bidding for stocks. Prices ranged from \$1.75@1.85 per cwt. for No. 1 white.

COMING LIVE STOCK SALES.

Holsteins.—September 29, State Fair Grounds, Detroit. E. A. Hardy, Rochester, Mich.
Shorthorns.—October 4, Hillsdale Fair Grounds, Hillsdale, Mich., Southern Michigan Shorthorn Breeders' Association. John Southworth, Sec'y, Allen, Mich.
Poland-China.—Oct. 5, F. E. Haynes, Hillsdale, Mich.

Live Stock Market Service

Wednesday, September 21.

DETROIT

Cattle.

Receipts 506. Market is dull and steady.
Best heavy steers \$ 7.00@ 7.40
Best handy wt bu steers 7.50@ 8.00
Mixed steers and heifers 5.50@ 6.50
Handy light butchers.... 5.00@ 5.25
Light butchers 4.00@ 4.75
Best cows 4.50@ 5.25
Butcher cows 3.75@ 4.00
Common cows 2.50@ 3.00
Canners 1.50@ 2.00
Best light weight bulls.. 4.50@ 5.00
Bologna bulls 4.00@ 4.25
Stock bulls 3.00@ 4.00
Feeders 5.00@ 5.75
Stockers 3.00@ 5.25
Milkers and springers... \$ 40@ 85

Veal Calves.

Receipts 292. Market steady.
Best \$13.00@14.00
Others 4.00@12.00

Hogs.

Receipts 1,541. Mixed hogs are 10c higher; pigs 15c lower.
Mixed hogs \$ 8.50
Heavy hogs 7.50
Pigs 8.25

Sheep and Lambs.

Receipts 2,736. Sheep steady; lambs 50c lower.
Best lambs \$ 8.50
Fair lambs 7.00@ 8.00
Light to common 5.00@ 6.00
Fair to good sheep 3.00@ 4.00
Culls and common 1.00@ 2.00

CHICAGO

Hogs.

Estimated receipts today are 13,000; holdover 9,960. Market strong to 15c higher. Bulk of sales at \$6.75@8.40; tops \$8.50; heavy 250 lbs up medium, good and choice \$7.65@8.40; medium 200 to 250 lbs medium, good and choice \$8.25@8.50; light 150 to 200 lbs common, medium, good and choice at \$8.10@8.50; light lights 130 to 150 lbs common, medium, good and choice at \$7.75@8.15; heavy packing sows 250 lbs up smooth at \$6.65@7.15; packing sows 200 lbs up rough \$6.35@6.65; pigs 130 lbs down medium, good and choice \$7@7.75.

Cattle.

Estimated receipts today are 10,000. Market steady. Beef steers medium and heavy weight 1100 lbs up choice and prime \$8.40@10.25; do medium and good \$6.10@9; do common \$5@6.10; light weight 1100 lbs down good and choice \$8.10@10.55; do common and medium \$4.55@8.10; butcher cattle heifers common, medium, good and choice \$4.25@9; cows common, medium, good and choice \$3.50@7; bulls bologna and beef \$3.50@6.25; canners and cutters cows and heifers \$2.50@3.50; do canner steers at \$2.75@3.50; veal calves light and handyweight medium, good and choice at \$7.50@13; feeder steers common, medium, good and choice \$5@7; stocker steers common, medium, good and choice \$4@6.75; stocker cows and heifers common, medium, good and choice \$3@4.75.

Sheep and Lambs.

Estimated receipts today are 28,000. Fat lambs 25c lower; fat sheep slow to lower. Lambs 84 lbs down medium, good choice and prime at \$7.50@9.15; do culls and common \$5@7.25; spring lambs medium, good, choice and prime \$5.25@7.25; ewes medium, good and choice \$3@4.75; ewes cull and common \$2@2.75; breeding ewes full mouths to yearlings \$3.25@6.50; yearling wethers medium, good and choice \$5.75@7.35.

BUFFALO

Cattle.

Receipts 2 cars; steady; good butchers strong; shipping steers quoted \$8 @9.50, but \$9 was top; quality being poor. Butchers \$7.75@9; yearlings at \$9@10.25; heifers \$5@8; cows \$1.50@5.50; bulls \$3@5.50; stockers and feeders \$5@5.75; fresh cows and springers \$45@135. Calves, receipts 2,000; \$7 @15.

Hogs.

Receipts 10 cars; market is strong; heavy \$8.75; mixed and yorkers \$9@9.15; light do \$8.75@9; pigs at \$8.75; roughs \$6; stags \$3.50@4.50.

Sheep and Lambs.

Receipts 3 cars; lambs at \$4@10; yearlings \$6@7; wethers at \$5@5.50; ewes \$4@4.50; mixed sheep \$4.50@6

NEAR EAST RELIEF PLANS.

(Continued from page 278).
tee to complete plans for the launching of the campaign. In the general discussion of the proposition it was brought out that while the amount of grain required looks large, the individual contribution needed will be small. Professor Friday noted that it would approximate only about one dollar for each \$10,000 of farm value in the state. All expressed confidence that the farmers of the state would respond to this call in the name of humanity.

At a meeting of the executive committee held immediately after adjournment of the board, the following letter was made public:

"To the Farmers of Michigan,
"From the Emergency Grain Board, in meeting assembled on Watkins Farms, Manchester:

"With children dying in their mothers' arms of starvation; with cholera and typhus spreading; with the population perishing in such numbers that in the larger cities wagons twice daily remove the corpses from the streets; with knowledge that food must be procured, transported and carried into the interior before these dread conditions can be overcome, the Executive Officers of Near East Relief recognize the absolute need for an immediate campaign for grain for the lands of the Near East.

"These men, who at their own expense had gone into this region of misery and death to verify the reports of their field workers and to procure facts upon which to base the next year's relief program, realized that not half the story had been told. Unhesitatingly they issued the order for a nation-wide grain appeal.

"The wail of the starving people of Armenia and its neighboring lands has been heard throughout America. An organization—in Michigan the Emergency Grain Board has been created to bring the appeal for those people, of whom eighty-five per cent are farmers, to the farmers of our own state.

"This year, today, you yourselves suffer the effects of short crops. But over there! The only harvest those unhappy people have had in more than five years has been the daily harvest of the dead; picked up in the streets; by the chill waysides of the wild Georgian Mountains; in the desolated farm valleys of Armenia; on the scorched floor of a desert whose only shadow of refuge for them has been the shadow of the wing of Death.

"We have been chosen to present to you their plight, and being of you, we do not hesitate. We know that you will sacrifice, that they may live.

"The need which America is called upon to meet is for 5,000,000 bushels of corn and wheat. Michigan's allotted share is 100,000 bushels.

"The records in the Michigan office of Near East Relief disclose many individual contributions by farmers. But this is the first time in Michigan the call has been sent forth to farmers as a producing class.

"We recognize that you may not be in a position where you can contribute either corn or wheat. You may prefer to make a contribution of money; or you may desire to contribute barley or rye or beans. The choice of your gift rests with you. Our thought is simply this:

"Every farmer in the state should contribute to the success of this appeal in behalf of these starving people—our allies in the World War, the oldest race of Christians.

"The distribution of Michigan's county quotas is fair. It represents a contribution equal to One Dollar in every \$10,000 of farm value.

"This appeal, to be of any benefit in the present crisis, must be met before November 1, 1921, in order that the grain may be milled, transported across the seas, and delivered into the interior before the snows of early winter block the roads into Armenia and the Near East. This is an opportunity for life-saving service which may present itself but once.

"BUT ONCE—I shall pass through this world but once. Any good therefore, that I can do, or any kindness that I can show to any human being, let me do it now. Let me not defer or neglect it—For I shall not pass this way again."

"Faithfully and confidently yours,
"Signed by the full personnel of the Relief Committee."

"Whatever his trials, the farmer does not know the horror of having no food in his cupboard."—Vivian.

LIVE STOCK AWARDS AT STATE FAIR.

(Continued from page 297).

Junior yearling heifer:—First, Albert Luchtman, Washington, Mich., on Korndyke Johanna Beelle; 2nd, Shiawassee County Exhibit on Lowland Belle Johann; 3rd, Barnett & Sons on Calamity Ona Stonyhurst.

Senior heifer calf:—First, Winn on Winn Wood Maplecrest Ormsby Wayne; 2nd, Butth on Red Rock Pauline Segis Johanna; 3rd, Lenawee County Holstein Assn., on Swastika Ona Trixy.

Junior heifer calf:—First, Lenawee County Holstein Assn., on Sire-Butter Boy Pontiac Korndyke 3rd; 2nd, Winn on Winnwood Dot Maplecrest Ormsby; 3rd, Musolf Bros. on Ona Belle.

Junior champion bull:—Lenawee County Boys' and Girls' Club on Swastika Ona Alexis; reserve, Winne.

Senior champion female:—Pontiac State Hospital on Pontiac Maude; reserve, Michigan School for Deaf on Thornapple Vienna Pride.

Junior champion female:—Winn on Winnwood Maplecrest Ormsby Wayne; reserve, Lenawee County Holstein Assn.

Grand champion bull:—Pontiac State Hospital on Flint Hengerveld Lad; reserve, Lenawee County Boys' and Girls' Club on Swastika Ona Alexis.

Grand champion female:—Pontiac State Hospital on Pontiac Maude; reserve, Winn on Winnwood Maplecrest.

Exhibitor's herd:—First, Pontiac State Hospital; 2nd, Butth; 3rd, Lenawee County Holstein Assn.

Breeder's herd:—First, Lenawee County Holstein Assn., on Fred Knopf, Jr.; 2nd, Pontiac State Hospital; 3rd, Butth.

Calf herd:—First, Winn; 2nd, Butth; 3rd, Pontiac State Hospital.

Four get of sire, at least three females:—First, Winn; 2nd, Lenawee County Holstein Assn.; 3rd, Pontiac State Hospital.

Two produce of cow:—First, Winn, 2nd, Shiawassee County Exhibit; 3rd, Musolf Bros.

Poland-China.

Boar two years or over:—First, W. B. Randall, Hanover, Mich., on Clansman's Image; 2nd, A. A. Feldkamp, Manchester, Mich., on Smooth Buster.

Boar 18 months and under two years:—1st, Feldkamp on Feldkamp's Clansman; 2nd, Chas. Wetzel & Sons, Ithaca, Mich., on Orange Clansman.

Boar 12 months and under eighteen months:—First, N. Fay Berner, Parma, Mich., on B's Clansman; 2nd, Feldkamp on Foxy Clansman; 3rd, F. E. Haynes, Hillsdale, Mich., on Peace and Plenty.

Boar six months and under twelve months:—First, Feldkamp on Ted Buster; 2nd, Haynes.

Boar under six months:—First, Feldkamp; 2nd and 3rd, Haynes.

Sow two years or over:—1st, Haynes on Nemo Lady; 2nd, Wetzel & Sons on Rachel; 3rd, Randall on Lady Wonder.

Sow 18 months and under two years:—Feldkamp on Lady Buster; 2d, Wetzel & Sons.

Sow 12 months and under eighteen months:—First, Haynes on H's Lady Clan; 2nd, Feldkamp on Bob's Kind; 3rd, Randall on Belle Post.

Sow six months and under twelve months:—First, Randall on Buster Girl 2nd; 2nd, Feldkamp on Clansman's Dais y2nd; 3rd, Feldkamp on Clansman's Daisy.

Sow under six months:—First, Richard Caskey, Hillsdale, Mich., on Lady Hyback; 2nd, Haynes; 3rd, R. W. Tenney Club, Charlotte, Mich.

Senior champion boar:—Borner; reserve, Randall.

Senior champion sow:—Haynes on H's Lady Clan; reserve, Feldkamp on Mens Lady.

Junior champion boar:—Feldkamp; reserve, Feldkamp.

Junior champion sow:—Randell; reserve Caskey.

Grand champion boar:—Borner; reserve, Feldkamp.

Grand champion sow:—Haynes on H's Lady Clem; reserve, Randall.

Exhibitor's herd:—First, Randall; 2nd, Feldkamp; 3rd, Haynes.

Breeder's young herd:—First, Feldkamp; 2nd, Haynes; 3rd, Randall.

Get of boar:—First, Haynes; 2nd, Feldkamp; 3rd, Randall.

Produce of sow:—First, Feldkamp; 2nd, Haynes; 3rd, Randall.

(Concluded next week).

In an Ohio feeding test only silage-fed steers made beef at a profit this year.

"A righteous man regardeth the life of his beast, but the tender mercies of the wicked are cruel."—Proverbs XIV, 4.

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