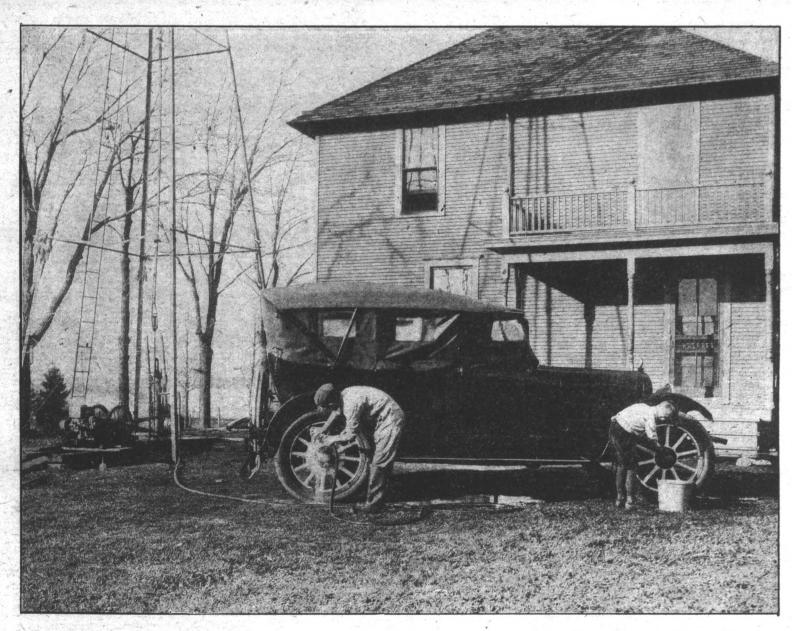


VOL. CLVII. No. 17 Whole Number 4171 DETROIT, MICH., SATURDAY, OCTOBER 22, 1921

ONE YEAR \$1.00 FIVE YEARS \$3.00



AY, Martha, listen to this.' It was Frank Anderson who spoke. He had left the

boys to finish washing the automobile before the evening meal was ready while he came in to read a letter from his brother who lived in Ohio. "Bill tells here of a neighbor's wife who has walked 5,710 miles and carried 2,000 tons of water."

"Bill must be improving in his figures," was the casual rejoinder of Mrs. Anderson.

"I judge these are not Bill's figures. It seems that a survey of farm homes is being made in Lawrence county. During this survey extension men from the university who are doing the work found this woman, now sixty-five years old, who for the past fifty years has been carrying the water needed by her household from a well

Water for Farm Homes

located six feet below the level of the kitchen floor and one hundred and forty feet away from the house. And now, after a half century they have learned that it will require an expenditure of only \$18 to pipe the water right into the poor woman's kitchen."

"Strange, isn't it—only yesterday at the community club this matter came up for discussion. Mrs. Chapman gave a ten-minute talk on the farm home water supply. Evidently she had informed herself on the subject for among other interesting things she included a statement on the number of homes having running water. According to data gathered by government men

only one home in every five in the north central states has running water, while sixty-eight

per cent of the women carry the water needed in their homes from wells outside. I presume Bill's neighbor is one of these women although she carried the water farther than the majority, for Mrs. Chapman said that these wells are located an average distance of forty-one feet from the kitchen"

Before Mrs. Anderson had finished this speech her husband had gotten out his much used pencil and began figuring on the corner of a newspaper. After a few moments he lifted his head and replied, "Mrs. Chapman hit it just about right, for this community, at least. In the six sections where I (Continued on page 376).



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DETROIT, OCTOBER 22,1921

CURRENT COMMENT

The Railroad Strike

THE country faces a difficult crisis as a result of the strike vote by the members of the four great "brotherhoods"

of railway workers in operative departments, and the consequent strike order issued by the executive heads of their respective unions. In view of the principle involved, as well as the seriousness of the situation, it is important that the public which must suffer as a consequence of this action and at a time when the average citizen had more than enough troubles without this complication, should have the clearest possible understanding of the situation and the events which have led up to it.

It is unnecessary to review the history of government operation of the railroads as a war measure, or to give more than passing mention to the fact that railroad labor costs, in common with labor costs in most other industries, more than doubled during the war and post-war periods. It is sufficient to note the tremendous deficit under government operation and the fact that the railroads were turned back to private operation with these costs at the peak point and at a time when the oncoming business depression reduced their revenues to an alarming extent. There was, however, more occasion for alarm on the part of the public than the railroad operators, due to the government guarantee of returns written in the transportation act under which railroad rates were boosted to the maximum point as a means of making up operating deficits. Yet the deficits continued, due to the low ebb of the volume of transportation, and the railroads were insistent in their demands for a substantial cut in labor costs, which the unions resisted just as insistently. This contention was finally adjudicated by in question and can only be met by the United States Railway Labor this drastic measure. Otherwise this breeds" judging, the boys from the Board, created under the transporta- practice of burning crop wastes is Michigan Agricultural College won section act, which awarded a general re- wrong from the standpoint of good ond in Jerseys, and third in Ayrshires duction averaging twelve per cent in husbandry because it robs the soil up- in the special breed work. Frank the wages of railway workers, effect on which the crop grew, of vegetable Thomas, of Lansing, stood se ond in tive last July.

least some of the unions involved.

of public opinion. This action will count. further stagnate business and postpone the day of its rehabilitation, and immeasurably increase the already acute sufferings of hundreds of thousands if not millions of unemployed workers. Apparently they have no just grievance which warrants this drastic step. They have not been forced to accept the arbitrary views of their employers in the matter. They have had their day in court. The rejected award was made by a judicial body created by law for the protection of the interests of the public, the workers and the capital invested in transportation facilities alike.

On the other hand, the railroad companies have confused the issue by posting notices of another cut in wages on the eve of the calling of the strike. While this proposal would have to go before the Railway Labor Board for adjudication on protest of the unions before it could become operative, it serves to lend color to the claims of the union spokesmen as to the justification of their action. The further fact that this latest move of the railroads was accompanied by the statement that any further reduction in labor costs would be voluntarily passed on to the public in the form of reduced freight rates, has introduced another factor into the situation through a proposal made by the public group in the Railway Labor board as a possible basis for the settlement of the strike. This proposal is for an immediate reduction in rates commensurate with the July reduction of the wages of railway workers.

Under these conditions the issue would seem to be clearly between the government and the unions, since the strike is in protest of a government award and the strike order is said to include mail trains in its application. This is perhaps fortunate, as it will tend to make the final outcome more reflective of the consensus of public opinion than would otherwise be the case, and the definite and early settlement of the underlying principles involved in this contest is undoubtedly desirable.

Robbing the **Fields**

THERE is a practice from which a few farmers do not appear to be able to divorce themselves. This practice consists

in burning the refuse from some of the crops which they grow. In regions where the potato is widely grown. one often finds the farmer raking together a luxuriant growth of potato vines and applying the match. In other parts, the clover chaff-pile is gotten rid of in the same manner and not infrequently large straw stacks are made literally to go up in smoke.

Thoughtful farmers concede this practice to be unsound except in cases where the control of plant diseases is four great unions of railway opera- matter or humus in the land we till. sey class. tives, although later events have serv- For giving physical fitness, water-hold. The team was coached by Prof. H.

of this vote, against the better judg- soil of an abundance of organic mat- Middleville, and Wm. J. Sweetman, ment, it is said, of the heads of at ter that the farmer should watch with East Lansing, made up the Michigan the utmost concern every possible team. To the average, fair minded citizen, chance to feed his land every pound of this action on the part of the railroad available vegetable matter. If he exunions under present conditions is in- pects to continue at farming this is of comprehensible. Certainly they can equal or greater importance to him Dakota won first place and Nebraska have no just expectation of the support than the status of his present bank ac-

> Congratulations Boys

IN another column of this issue the reader will note that the team which took third place in the intercollegiate cattle

judging contest under the auspices of the Dairy Congress, at Waterloo, Iowa, fortnight ago also won third place at the National Dairy Show at Minneapolis this past week. More honor to the Michigan men because of the consistency of their work since the teams winning first and second at the Iowa contest were placed way down in the list at the Minnesota event. To the men composing Michigan's successful team we extend our heartiest congrat- life in Paris. ulations.

And more than this, we well know that men who are able to win high honors in fields of such strong competition are not prepared in a day. Long patient training under the guidance of the most competent instructors is necessary to fit them for such an ordeal. So, besides congratulating the team members we wish also to extend these congratulations to the members of the college staff who were instrumental in bringing about this high degree of training and to the college itself for providing the agencies through which the work was accomplished.

Honors Go to Otsego

counties in raising its quota to feed starving peoples of Armenia and kindred regions during this coming winter. A letter to the Emergency Grain Board states that the quota of that county has been subscribed in full. This prompt response to the appeal for near east relief shows a splendid public spirit among the farmers of this northern county and they are to be congratulated for their fine show-

OTSEGO county

among all Michigan

takes the lead

ing. We are wondering which county will rank second in subscribing its quota of the 100,000 bushels of grain which will be donated, by Michigan farmers for the saving of 200,000 children, most of them orphans, from death by starvation. The Michigan Milling Company has just announced that it will mill, free of charge, the whole of Washtenaw's quota and the Grand Trunk Railway will transport all of Michigan's quota to shipside, freight-free.

National Dairy Show

C OMPETING with teams entered from sixteen leading agricultural colleges of the middle west, a student dairy cattle judging team from M. A. C. won high honors for the state this week at the National Dairy Show, in Minneapolis.

In addition to third rank in the "all matter needed in the restoration of its individual standing for all judging, The acceptance or rejection of this productive power. Generally speaking, while L. E. Harper, of Middleville, anaward was made the subject of a mass we farmers think too lightly of the other member of the Michigan team. vote among the membership of the value of an abundance of vegetable won third individual honors in the Jer-

ed to confuse the issue. This vote re- ing capacity, proper chemical reac- E. Dennison, of the dairy department sulted in substantial majorities in fa- tions and readily available plant food, at the college, in connection with class

They are all students in the agricultural division at the college.

In the boys' club judging contest sixteen states were represented. North second. The Michigan team which was composed of William Peters, of Homer; Sidney Phillips, of Charlotte, and Roscoe Simmon, of Athens, got (Continued on page 393).

News of the Week

Wednesday, October 12.

EARLY 25,000 people between the ages of fourteen and eighteen are employed in Detroit.—A Chicago wom-an gets divorce because her husband put a live mouse in the bed.—A Savannah, Ga., man runs out of names when his thirty-first and thirty-second children, twins, were born. He is fathof seven sets of twins and two sets of triplets.—The United States Steel Corporation will spend \$10,000,000 in extending their manufacturing plants.—The Crown Prince Alexander, of Servia, has given up the throne for life in Paris

Thursday, October 13.

THE Pere Marquette Railroad opens A new million dollar terminal in Saginaw.—King Albert and Queen Elizabeth of Belgium, crossed France in an airplane.—The Standard Oil Company raised its price on gasoline and kerosene one cent.—President of Harding congratulates President of Harding congratulates President of China on anniversary of establishment of Republic.—An increase in interurban fares on the Detroit United Railroad was upheld by the United States Supreme Court.—Director of Budget Dawes establishes a federal traffic board which is designed to prevent waste of funds expended in government's traffic business.

Friday, October 14. THE railroads of the country voluntarily make a twenty-eight per cent reduction in iron ore freight rates.—Senator Philander C. Knox, known as the greatest "trust buster" in America, fell dead in Washington.—

It is reported that Henry Food may in America, fell dead in Washington.—
It is reported that Henry Ford may
buy the D. &. T. electric road to connect his road with Cincinnatti.—
Eighty-five per cent of the Chicago
packer employes favor a strike.—A
Texas woman in speaking before the Michigan Federation of Women's Clubs urged women to talk more, saying they must have opinions and be able to express them.—Canada has asked each farmer to give ten bushels of wheat for the Armenian relief.

Saturday, October 15. SENATE agrees to repeal freight, passenger, Pullman and express transportation taxes, to be effective January 1.—The school teachers in the Tyrol district of Switzerland have gone on strike because they have received no salary since June.—The city of Highland Park has dropped all women from its payroll.—Babe Ruth was crowned "King of Swat" when a silver crown more than a foot high was placed on his head before one of the championship games.—Prohibition enforcement throughout the States has cost the government over \$6,000,000 during the past year.

Sunday, October 16.

THE Detroit United Railway refuses \$388,000 offered by the city for the Fort Street and Woodward Avenue lines.—Ten firms are chartered by the Canadian government to sell rum to the United States.—William J. Simons, the imperial wizard of the Ku Klux Klan, collapsed after a five-hour crossexamination by a house of representatives committee.—Spain plans the construction of fifty-eight war ships of various sizes during the next six years.—All records for divorce cases have been broken in London, over three thousand cases having been filed for October.—Counterfeiters are ing with bootleggers and are flooding the Detroit vicinity with counterfeit United States bills.

Monday, October 17.

FIRE in Charleston, South Carolina, reight docks.—A strike of railroad employes is called for October 30. Over two million employes will be affected.—The two billion dollar agricultural loan by federal reserve brings the banks of the country a flood of appeals for money.—Mrs. Francois Levapresto was proposed to on her hundred birthvor of the rejection of the award and decaying vegetable matter has no peer. work in dairy judging. It is the first day by James Linsay, 103 years old.—
the calling of a general railroad strike it contributes wonderfully toward big year that competitive teams of the come on visit to London.—Bullet-proof in each of the unions. The calling of yields. So important to successful kind have been sent out from M. A. C. steel corsets have been tested out by the strike for October 30 is the result farming is the incorporation in the Frank Thomas, Lansing; L. E. Harper, the New York police department.

A Broader Use of Legumes

Is the Object of a Big Cooperative Campaign for Michigan

grass crops in general, is being plan- stock. ned by the farm crops department of the Michigan Agricultural College in live stock and fruit production are all Grand Rapids & Indiana Railroad Ag- supplies of seed, ground limestone of the agricultural and industrial agen- growing of more legumes. Alfalfa and Agricultural College, County Agricul- ity and at the best rates." cies in Michigan.

western and northern Michigan where these fields stood out like oases in a be rendered in western Michigan than

The proposal is receiving the indorsement of practically every agricultural agency in the state and if the plans are carried out as the promoters have suggested, the campaign may be conducted similar to the "better sire" train which was such a pronounced success in its swing through twentyfive counties of the state early in

Prof. J. F. Cox of the farm crops department of the Michigan Agricultural College, is one of the leading forces and enthusiastic promoters of the campaign. In discussing the western Michigan side of the campaign with William P. Hartman, secretary of the Western Michigan Development Bureau, he stated:

"I have made several recent trips through western Michigan and am more convinced than ever of the great need of increasing the acreage of alfalfa, clover, sweet clover, vetch, legume and grass crops in general. I note

wide as its objective, to increase with alfalfa, or are using sweet clover these foundation crops. The same is manure lectures and demonstrations, the acreage of alfalfa, clover, in rotation, are having much greater true of other Michigan localities. sweet clover, vetch and legume and success with other crops and live

sweet clover have done surprisingly The present season has demonstrat well where rightly handled. It has Improvement Association, and other ment given the proposal by Mr. Harted to a-great extent, particularly in been increasingly difficult to get good stands of clover. It is chiefly a ques-during the winter and spring, could do Cox has suggested that a conference a prolonged drought raised havoc with tion of getting farmers to follow the a great deal in encouraging the acreage many forage crops, the need of a larg- rules of growing these crops, getting of alfalfa, clover, sweet clover, and er acreage of alfalfa and other legum- the right seed, and on most farms lim- other legumes, utilizing the facts now inous crops. In some sections of the ing the land with ground limestone or state the only hay crop to yield nor- marl in order to insure success. I well coordinated campaign during the mal or near normal, was alfalfa and know of no greater service that could coming winter and spring.

tural Agents, the Farm Bureau, Crop available and putting on a definite and

"This campaign would consist of a

N educational campaign, state- that farmers who are having success the widespread encouragement of series of legume, lime phosphate and numerous articles in country papers, "I believe that the Michigan Depart- possibly a legume, lime, phosphate and ment of Agriculture, the Western manure train, and cooperation with the "Potatoes, corn, beans, grain crops, Michigan Development Bureau, the farm bureau and dealers in getting conjunction with the leaders of many directly or indirectly benefited by the ricultural Department, the Michigan marl, acid phosphate of the right qual-

In all probability from the indorsefarmers' organizations, acting together man, of the development bureau, Prof. to outline the western Michigan campaign be held, either in Grand Rapids or East Lansing early this fall in order that the movement get well under way soon after snow flies.

"This campaign is directly in line and emphasizes the very greatest need in western Michigan," said Mr. Hartman. "If we are to improve our agricultural status, we must encourage the growing of more legumes.

"There are many things to which western Michigan, because of soil, climatic conditions and geographical location, is naturally adapted and foremost is an immediate substantial increase of our live stock industry, the grazing and feeding of sheep, cattle and hogs, and enlarging the facilities of our dairy industry.

"The better sire train was a whirlwind of a success. Undoubtedly it has proved to be the biggest agricultural promotion feature ever put over in western Michigan, or for that matter, in the state. As I see it, we need another train of like character yet this fall. Next in order a train featuring soil fertility, growing of legumes, use of lime, fertilizers, etc. Third, a landclearing demonstration train. Fourth, a fruit train serving'the fruit districts of western Michigan."-R.



Hon. George A. Prescott Assisting at Marking Steers on His Big Ranch in

Value of Egg Pools Demonstrated

By Earle W. Gage

NOOPERATION has made immense strides in agricultural Canada during the past few years, and it been more thoroughly worked out than in the handling and marketing of eggs. Both the federal and the provincial governments have bent their plished wonders in the comparatively short time they have been laboring.

The cooperative egg circle is an association organized among farmers for the purpose of marketing eggs frequentthe quality of eggs as they leave the farm and to place them in the hands ble delay, and in the best possible

has, perhaps reached a greater completeness than in any other section of Canada. In the constitution of the Poultry Selling Association adopted in pursuance of the provisions of an act of the legislature of that province, the objects are set forth as the "encouragement of the production and marketing of eggs and poultry and of matters connected therewith; the supervision of encouragement in such enterprises as may be deemed advisable in order to facilitate the more profitable production and sale of the product of the members; the encouraging of the purchase of improved strains of high-producing poultry."

A board of seven directors is elected and the officers of each egg circle are required to put up a collateral demand note in favor of the association for an

is authorized to employ an egg collect- cle. All eggs are required to be unor. Each local circle is required to broken, clean, and not more than one turn over a small percentage to the week old, weather and roads permitenergies to the work and have accompenses. Each circle also reports annupose of eggs through an egg circle ally to the association and keeps the from hens other than his own. Such board is appointed of three members, circle. chosen by the board of directors of the association. Arrangements are made land previous to the organization and ly and regularly through a common for the assistance of the circle in case adoption of the permanent system of medium. The object is to maintain of the organization sustaining finan- cooperation was very much the same

of the consumer with the least possi- quired to deliver their eggs not for the Island nad Quebec, but difficulties housekeeping or breeding purposes, or of transportation and lack of system-In Prince Edward Island the system time and place determined by the this trade until finally the Poultry Di-

without a doubt in no other line has amount not exceeding \$25. The board board of directors of the local egg cirassociation to meet unavoidable ex-ting. No member is allowed to disassociation posted. An arbitration are the main features of a typical egg

The experience of Prince Edward Isas that of Denmark. Years ago a trade Members of an egg circle are re- of some dimensions existed between to be sold for breeding purposes, at a atic collection led to a falling off in

Branch came to the rescue and sent experts to Prince Edward Island, who succeeded in inaugurating the industry on the basis that presently exists.

In Quebec, the necessity of better regulations regarding egg production and methods of marketing was recognized five years ago. Methods were adopted at a centralized meeting for carrying out projects which have since been continued with much profit to the poultry trade of the province. The Provincial Department of Agriculture has also taken a wide and active interest in work in this direction. It can be stated that while the value of eggs shipped from the various egg circles in the province in 1916 amounted to \$17,-803.67, a lesser number of eggs in 1917 sold for \$20,639.33. The present annual sales approximate \$40,000. This increase of revenue is due to a considerable extent to the systematic standardization of the market product, which in its turn is to be attributed to cooperation.

Speaking on the subject of this cooperative sale of eggs, Auguste Trundel, manager of the Quebec Cheesemakers' Cooperative Association, said: "Great progress has been made in the cooperative sale of eggs and this progress will become still more marked when the trade can be diverted from the channel which it has constantly followed up to the last few years.

"The greatest obstacle to the establishment of a good system, profitable to both consumer and producer, is the country storekeeper. The storekeeper is not in a position to exercise any

(Continued on page 390).



Poultry Demonstrations Are Gaining for Farm Hen Rightful Recognition.

LATE AGRICULTURAL NEWS

NEW WHEAT FOR NORTHERN MICHIGAN.

ninsula Development Bureau, before will be on the system when finally ap ten bushels of have been developed at the Ashland per cent may be used in any year prothe Marquette office with a view to its system whenever funds are available. trial and probable introduction to the farms of northern Michigan. It is reported to have enjoyed a premium of ten to twelve cents per bushel in the Duluth market, to which Wisconsin farmers are now shipping it by the carload .- CHASE.

THE NEW FEDERAL HIGHWAY ACT.

THE federal highway act, as approved by the conference committee of congress provides that each state through its state highway department, must designate a system of highways, which shall not exceed seven per cent of the total mileage of each state. Fed- country movement is stimulated, and eral aid appropriations are limited to as the offerings increase, quotations this system until the same has been begin to slip, having an opposite effect tem is divided into two classes, pri- folly to talk lower prices for alfalfa mary state highways and secondary even though the market situation is system shall not exceed three-sevenths basis which show a net loss to the pro

system.

ONE of the last acts of J. A. Doelle, thority to approve a part of the sysformer manager of the Upper Pe- tem and also projects which he knows relinquishing the immediate direction proved. Not more than sixty per cent of the bureau's affairs, was to order of the funds allotted to each state shall Wisconsin No. 8 be expended on the primary system wheat from the experiment station at until the entire system has been pro-Ashland. This wheat, understood to vided for, except that more than sixty station, is said to be superior to Red vided joint approval is made between Rock in yield and quality, and to be a the secretary of agriculture and the very highly favored type in northern state highway department. Whenever Wisconsin. It will presumably, there a state has provided for the construcfore, be well adapted to northern Mich-tion of a seven per cent system, addiigan. It is to be distributed through tional mileage may be added to the

FEES TOO HIGH.

THE Lake Superior Guernsey Breeders' Association of Gogebic county has been dissolved, owing, it is stated, to the high fees charged by the state under the new corporation act. The members of the association plan to continue operations as a partnership, it is stated.-L. A. C.

HAY PRICES FLUCTUATE.

PRICES for alfalfa, prairie and tame hay move up and down almost with regularity. When prices advance, the This seven per cent sys- on the flow from the interior. It is

ary must connect with the primary west is of insignificant volume. Michi- roads of Gogebic county. The estimatgan, normally a moderate buyer of ed approximate saving is \$12,000. Hun-The secretary of agriculture has au- prairie hay in Kansas City, shows an dreds of acres of land have thus been almost total lack of interest in the cleared and put to work, it is stated. offerings.—S.

CAMPAIGN AGAINST PREDATORY ANIMALS.

States Bureau of Biological Survey, is to open an office at Marquette, whence he will direct operations against predatory animals throughout the winter. The cooperative arrangement between this bureau and the State Conservation Department, is reported to be working very well, and numerous wolves, coyotes and other noxious animals have already been destroyed .- CHASE.

ENTRIES TO INTERNATIONAL CLOSE NOVEMBER 1.

A LL Michigan breeders who contemplate entering animals at the International Live Stock Exposition to be held at Chicago Stock Yards, November 26 to December 3, are hereby notified that the late date on which such entries may be made is November 1. Notice to this effect has just been received from the secretary-man-

LAND-CLEARING EXPENSES CUT.

GOGEBIC farmers have ordered for-ty thousand pounds of government picric acid for farm-clearing. Accordor intercounty highways. The primary bearish, as values already are near a ing to information at hand eighty thou- at the little red schoolhouse has a lot

WATER FOR FARM HOMES.

(Continued from first page). MR. J. S. LIGON, of the United now all the farmers, about twenty per cent have running water in their homes."

> And along this line be it said that the percentage of farm homes with an easily available water supply is bound to increase rapidly. This twenty per cent is leavening the whole farm population. With a better knowledge of farm engineering these people have come to know that the installation of running water is possible under almost every condition and in a great majority of homes no difficult problems are involved.

> The percentage will grow also because running water is the key to the introduction of many of the conveniences which farm folks are now seeking. The advent of the bathtub, the indoor toilet, the kitchen sink, the hot water heater, all more or less dependent upon running water, will not only relieve the women folks of the farm from much drudgery, but will also give them a sense of living up to the possibilities of the times. And this sense of pride is even a more important factor in the routine work of the woman's life than it is in the more varied work of men.

The man or woman behind the desk sand pounds of TNT have been used to do with the kind of men and women of the entire system, and the second- ducer. The movement of hay from the during the past year on the farms and your boys and girls will grow up to be

ACTIVITIES OF FARM BUREAUS

Latest News From Local, State and National Organizations

CHANGE IN FARM BUREAU TITLES.

cer of the state organization shall hold an elective or appointive public office, postponement. Secretary C. L. Brody resigned the position of secretary, following his appointment to the membership of the State Board of Agriculture by Governor Groesbeck, and was immediately appointed by the State Farm Bureau executive committee as general manager of that organization. In this capacity, Mr. Brody is authorized, as in the past, to have general supervision of the business departments of the farm bureau. A. J. Rogers, of Beulah. an executive committeeman, was appointed secretary to look after the nominal duties of that office, without any increase in compensation.

MRS. KETCHAM ON WOMAN'S COMMITTEE.

M RS. JOHN C. KETCHAM, of Hastings, Michigan, has been apthe American Farm Bureau Federation to the Woman's Committee of the Federation which will meet at Chicago on October 26 to determine what position reau and to outline a program for their the Michigan State Farm Bureau, to study the plan in every phase previthe committee will be presented to the Brody, is asking Michigan County which is to be held in Chicago on No-

members of the woman's committee want done at the third annual Ameri- ors will have charge of both the coop-O conform with the requirements and Mrs. Vera Busiek Schuttler, of where the national program for 1922 of the constitution of the State Missouri. The committee was original- will be outlined. Mr. Brody is asking Farm Bureau which states that no offi- ly scheduled to meet October 21, but County Farm Bureaus to have their a conflict of dates made necessary a

GRAIN GROWERS WORK GOES FORWARD.

MEMBERSHIP in the U.S. Grain Growers, Inc., at the close of last week stood at 15,401, an increase of 1,748 for the previous six-day period, according to an announcement made by the national headquarters of the association. The summary also shows that forty-one new elevator contracts had been signed during the week, bringing the total to 488. For the third consecutive time, field representatives of the organization turned in a new week, the increase indicated in this last being slightly more than that shown in the previous

pointed by President J. D. Howard, of FARMERS' WANTS TO BE ASCER-TAINED.

are: Mrs. A. E. Brigden, New York; can Farm Bureau Federation conven- erative and orderly marketing features Mrs. Izetta Brown, of West Virginia, tion at Atlanta, Ga., November 21-23, suggestions into the state office not later than November 1.

"The farm bureau is a representative, democratic organization," Secretary Coverdale said. "The officials, individual members want done. As vidual member will register in making Farm Bureau Federation."

Through the forty-five State Farm Bureau Federations more than 1,500 near future are: County Farm Bureaus are affiliated with the national federation. It is believed that no less than 1,500 answers to the request for suggestions from the County Farm Bareaus will be sent in.

LIVE STOCK MARKETING COM-MITTEE.

THE Farmers' Live Stock Marketing Committee of Fifteen held its seventh session in the Hotel LaSalle, Chicago, on October 18. Details of the IN accordance with a request from cooperative live stock marketing plan Secretary J. W. Coverdale, of the are being perfected and published, so women shall occupy in the farm bu- American Farm Bureau Federation, that producers will have opportunity activities. The recommendations of through its general manager, Clark L. ous to the ratification conference, annual farm bureau convention at At- Farm Bureaus to get suggestions from vember 10. The committee has decidlanta, Ga., November 21-23. Other their membership as to what they ed that a national board of nine direct. Atlanta, Ga.

of the plan.

SOME FARM BUREAU EVENTS.

AMES NICOL, president of the Michigan State Farm Bureau, is to preside at the first meeting of the National Fruit Marketing Committee of Twenty-one at Atlanta, Ga., November state and national, will do what the 19, just preceding the annual convention of the American Farm Bureau rapidly as possible we are providing Federation. The fruit marketing commeans so that the mind of every indimittee was appointed by President J. R. Howard, of the American Farm Buup the mass mind of the American reau Federation to develop a national cooperative marketing plan for fruit.

Other farm bureau events of the

October 26.-Woman's Committee, General Offices, American Farm Bureau Federation, 58 East Washington Street, Chicago.

November 10.-National Live Stock ication Conference, Hotel LaSalle, Chicago.

November 17-8.—Publicity Conference of American Farm Bureau Federation, Piedmont Hotel, Atlanta, Ga.

November 19.—Meeting of Executive Committee of American Farm Bureau Federation, Piedmont Hotel, Atlanta,

November 19.—Farmers' Fruit Marketing Committee of Twenty-one, Pied-

mont Hotel, Atlanta, Ga.

November 21-23.—Third Annual Convention of American Farm Bureau Federation, Convention Hall, Atlanta,

November 24.—Meeting of 1922 Ex-ecutive Committee of American Farm Bureau Federation, Piedmont Hotel,

Advises Farmers to Stick

Outlook is Improving

received when prices were high and per cent above pre-war prices and liv-

means certain. Economics is the study of business relations which embraces ditions are confidence and credit which physical, mental and political facts. constitute one of the Christian tenets The present day plight of agriculture called faith. This is certain and is a is that it pays out \$1.00 and receives national trait and already discernible. therefore sixty-five cents in exchange for other commodities which he buys. On debts created at the peak, he must pay back a dollar that has twice the purchasing power which existed at the time the debt was creafed.

Agriculture by lack of complete organization to resist was made to bear. an undue portion of this price-decline. Labor has said, "we will not accept less wages." Industry has said, "we cannot, so long as labor holds out for mately leads to the civilization found high wages." In a general way there is a cessation of activities industrially until this is settled. This is outside of agriculture and the industries engaged directly in manufacturing material produced on the farms, like the meat packing industry for example Other reasons are given, such as lack of European outlets, etc. Since ninety per cent of the business of the United mind, the best advice is to stick. You States is internal, the big item of importance is at home.

To place the situation in another ization .- J. N. McBride. way, it is like a pot-luck supper where the farmers furnish the supper because the others have little to contribute. Food and clothing are the primary needs of the world. High incomes make luxuries a necessity rather than do not become careless and neglect the primary needs. The deadlock is the essential precautions. Millions of lower taxes. In the meantime they eat in preparing virgin timberlands for until conditions are made possible for frozen explosives. Some of these mawages unwisely.

who talks about the law of supply and electric blast cap. demand as an explanation. Gresham's famous maxim about cheaper money displacing the better might be amplified or another maxim be stated, that in a crisis the necessities of life fall in price more rapidly because the pri-

Transportation and manufacturing department.

LL over the state are farms is awaiting lower wages; wage earners bought on the basis of prices are awaiting lower rents and the pricprevailing in the war period. A es of farm products lower to them by fifty per cent indebtedness is not un- a better system of marketing. England common, and that calls for the dollars 'has stabilized railroad wages at fifty to be paid when prices have fallen ing costs in England are also about around one hundred per cent. What the same rate. England's producers is the probable outcome is the question are reasonably prosperous. The best that men ask themselves. Many are economic thought is that agricultural wondering what their own future will prices will finally reach that basis in be and what equity have they left, the United States. The time depends Forecasting on this subject is by no on conditions which no one can safely forecast. The main contributing con-Second, the crop conditions for next year. Third, agricultural organization. The farm bureau, projects of the grain growers, the wool pools and live stock organizations are the most important. It is the exact truth today, the farm bureau is the main line of defense against agricultural peasantry in the United States. The continuation of production at less than cost menaces the whole national fabric, and ultiin Asia. To supply food and clothing as needed at the reasonable profit accorded to other industries is sound economic doctrine and justice. The individual is hopeless. With organization he attains to his rightful economic

To the man who has bought a farm and is heavily in debt and depressed in can win out. However, don't go it alone, but support agricultural organ-

"DON'TS" FOR BLASTERS.

THERE is little danger in stump blasting, providing the operatora on and industries outside of agricul- pounds of explosives are being set off ture are waiting for lower wages and annually through the cut-over regions and are compelling low farm prices cultivation. It is dangerous to handle renewed production. Just as the son terials freeze at comparatively high out of work in the city comes back temperatures while others do not to the farm for temporary support, so freeze at all. When you buy your exall are back to the farm for a brief plosive ascertain from the dealer at period to eat and be clothed. The what temperature it will freeze, and farmer gladly supports his son, even secure detailed directions for thawing though he may have spent his high it out if you must use it in cold weather. Always store explosives and blast-I hope this homely illustration is ap- ing caps in dry places, keep them seppreciated because it is of primary im- arated and be sure that they are lockportance in understanding financial ed in storage places not accessible to crises, viz., that all continue to eat children. Remember that blasting caps and wear the farmer's products and are very sensitive and have more that low prices are forced on farm "kick" than a high-power rifle bullet. products by the necessities of those Hence, handle them with extreme cauwho must be supported. This state- tion, and never carry blasting caps in ment of fact is not one of approval, your pocket. Never attempt to remove and the defenselessness of agriculture blasting caps from the packing box by is the lack of organization to resist prying them out with a nail, wire, or and the spirit of non-resistance sup- any other sharp or hard object. Never ported by the uneconomic economist attempt to withdraw the wires from an

OPPOSES AGRICULTURAL DE-PARTMENT CHANGES.

THE American Farm Bureau Feder ation is strenuously opposing the mary needs supplant secondary ones. proposed dismemberment of the Unit-In understanding this situation there ed States Department of Agriculture is the immediate hope of the farmer by transferring the Bureau of Markets for better times which will be hasten- to the Department of Commerce, the ed by increases of credit and the al- Bureau of Roads and Forest Service ways reaction that comes of daring to the Department of Public Works, leadership, of starting to do something: and the Weather Bureau to another



Mileage Costs Cut!

Why Wobst Felt Shoes Wear Longer

HERE is a reason why both men and women get more miles of wear per dollar out of Wobst Felt Shoes than from any other kind-felt or leather.

Wobst shoes are made better. They contain only the finest grade of wool-felt-not cow-hair and glue; they have genuine fibre counters—not cheap paper ones; wherever upper leather is used it is all grain—not "split". Workmanship is of the best-some of the men in the Wobst plant have been making shoes for 35 years.

Because the Wobst Shoe Company is the largest exclusive manufacturer of felt shoes in America, it can take advantage of every economy of quantity buying and large scale production methods. Thus Wobst Shoes cost no more than ordinary felt shoes—in fact, they actually cost less because they wear longer.

The Wobst line includes both men's and women's plain felt, leather foxed and full vamp shoes—either unlined, grey felt or wool-fleece 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.



Women's No. 542

Style, smooth fit, comfort and warmth are all combined in this 9" shoe. The black heavy felt upper and the finetextured 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

NLY 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 pur-chase price of the shoes.

WOBST SHOE COMPANY

413-415 VLIET STREET

MILWAUKEE, WIS.

Look for this label sewed on the inside of the tongue of every genuine Wobst Felt Shoe







Underwear

For Women and Children

Costs no more than ordinary underwear, although it wears two or three seasons if properly washed.

Comfortable fullness at bust and hips, a special seat which stays closed, seams which refuse to rip and the finest of longwear cotton, are some of the features.

R. A. Underwear is warm and comfortable, and is especially adapted for the farmer's wife and children. Ask to see the 6 Points of Excellence. The salesgirl at the counter knows.

Unions and separate garments for women and children. Heavy and medium weight. Ask your dealer.

J. C. ROULETTE & SONS HAGERSTOWN, MD.

Manufacturers of R. A. Underwear.



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There's satisfying comfort and cheer in a breakfast cup of Postum, and there's no disturbing element to irritate nerves or digestion and leave mental energy lagging before the day is

Thousands of former coffee users have found that Postum meets every demand for a delicious table beverage, and brings steadier nerves, clearer mind—better health.

As many cups as you like with any mealno after-regrets.

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

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Our Service Department

LOSS IN TRANSIT.

About one and a half months ago I sent for some money which I had in the bank. Instead of a check they sent me currency, and it got lost through the mail. The mail man does not remember of ever seeing the letter. The banker says that I must stand the loss but I think he should say I the loss, but I think he should, as I do not believe he has any right to send money in that way. Has he? The money was sent in bills and silver, and in an envelope.—L. O.

ment is. If the depositor requested that the money be sent by mail, and it was sent in the customary way of forty feet. sending money; or if by the custom of uniformally sent in that way, and the depositor in requesting the remittance for both purposes at once, and my addid not direct otherwise, the post of vice would be, while you were build-fice department is the agent of the ing, to build the barn of sufficient depositor; delivery to the post office is delivery to the depositor, and he must bear the loss. Also, even though the depositor never before asked for a remittance, if he failed to designate the method of delivery, and the money was sent in the method usually em ployed at the time and place by business men in making remittances, delivery to the post office is delivery to the depositor. Otherwise there is no delivery till the money reaches the depositor; the carrier is the agent of the bank; and the loss must be borne by it.-J. R. R.

ARRANGEMENT OF STABLE.

I intend to build a new barn this year. The barn is to stand north and south, which is 34 feet wide. On the south end is the horse stable and granary, 16 feet wide. The barn floor is 14 feet wide, with room enough for six. teen cows. I intended to put two rows of stalls east and west. One row facing the barn floor, the other facing the gamble end, with a driveway wide enough for a manure spreader between. Also an alley and silo on the north. Now, which would be the best, an alley along the front row of stalls or feed from the barn floor? There was a dairyman here selling barn equipment. He told me to put the rows of stalls north and south with a feeding alley in the center, the cows facor stains forth and south with a reeding alley in the center, the cows facing each other. He says that it hurts the cows facing the light, that to be sanitary the light should be on the gutter instead. Which do you think the best way the cows facing the outside or inside of the barn? Genesee Co.

My idea is that where you want two rows of cow stalls is to have the cows face out and a wide area between the two rows so you can drive through with a manure spreader or manure truck. This reduces to a minimum the labor and cost of handling the manure which is the hardest and most expensive the hardest expensive the hard sive job on a dairy farm.

not my experience.

King System and have your cows face important.-J. R. R.

out they will get fresh air from out doors directly from the feeding alley. Sunlight, we know, is a great purifier in a stable, but you need this quite as much in the feeding alley as you do in the gutter. The spraying of the gutter with a good disinfectant once a day will more than compensate and, as a matter of fact, this disinfecting should be done, whatever arrangement is made.

A barn thirty-four feet wide is too Who must bear the loss depends on narrow to have your cows in. Howwhose agent the post office depart- ever, I would suggest that you build it at least thirty-six feet wide and if I were to build again I would make it

You can use your barn floor in place the particular parties money had been of a feeding alley if you choose to do so, but, of course, you can not use it width so that you could have separate feeding alleys .- C. C. L.

RIGHTS OF PURCHASER UNDER LAND CONTRACT.

A buys eighty acres from B, paying \$500 down and a land contract is drawn up for the balance of \$2,300, the purchase price being \$2,800. The contract provides for a payment of \$100 per year with interest, thus making the contract for twenty-three years. For three years A has kept up his payments as agreed. But now A is not in a position to make the next payment and tells B that he cannot enforce payment, nor can he remove him from the land until the exporation of the contract, providing A pays taxes on this land. Can B remove him and take possession on failure of A to make payment, or can A hold possession for the life of the contract without making further payments—E. F.

Whenever the payments are in arrears under a land contract the vendor may take proceedings under the summary proceeding statute to recover possession of the property. This statute requires notice of at least two days to the purchaser to appear before the justice of the peace or circuit court commissioner, and on hearing and judgment he has thirty days to pay the amount found due the vendor and costs; and if such amount is not paid within the thirty days, the vendor may have a writ of restitution to put him into immediate possession.-J. R.

FIXTURES.

We moved on this place with the intention of buying it and paid some money down, put a barn on it 30x36, which is not on a foundation. We have been forbidden to take anything off. Dare we take the henhouse? We have

The general rule is that fixtures an-Your barn equipment expert is right nexed with intention to make them in a way. Where animals or man have permanent annexations to the free to constantly face direct light it will hold, become a part of the land, and in time injure the eyes, but with cat- cannot be afterwards removed by anytle that eat out of low mangers, espe- one but the owner of the land. This cially where the front of manger is intention to make the annexation perhigh enough so that it shades some- manent may be manifested by the what, it is not nearly as bad as for method of annexation, the adaptability, horses, that eat out of high mangers to the use, the comparative value and and their eyes are directly in range nexed and removed, the interest of with light constantly. Ordinarily I do the party annexing at the time of annot think you would have any trouble nexation to make the addition permain a cow stable from injury to the nent, etc. From the circumstances of eyes from this cause, at least this is this case we do not doubt that both the barn and henhouse would be re-On the other hand, your cows are garded as permanent fixtures. The rule kept under better sanitary conditions on these particular facts would be when they face out, they have better quite different if the same annexation air to breathe. I do not like the idea had been made by a tenant for one or of cattle breathing in the faces of oth- five years. The fact that the buildings er animals standing directly opposite. were put on by one who was under If you ventilate your barn with the contract of purchase of the property

CHEMICAL TOILETS.

Are the chemical tollets, advertised so much for rural homes, sanitary and healthful? Might it not be that the chemicals destroy the odor but not the bacteria?—G. C. H.

Yes, if they are operated according to instructions.

CONTAMINATION OF WELL.

How far should the barn be from the well to make sure the water is not contaminated by the seepage from the barn?—F. W. C.

No one can say. It depends upon the nature of the ground formation. The best answer to this question is, "as far as possible."

PURITY OF WATER.

How can I tell whether the water from our well is pure or not? Is there anything we can put in it to kill possible impurities?—H. L. K.

Write to the laboratory of the State Department of Health for a container and instructions for collecting sample. Send sample to the laboratory of the State Department of Health and you will receive a reply in due time.

Treatment for the purpose of purifying the water in a private well is not practicable.

USES FOR TRACTOR.

Can I use the tractor to advantage in other work than plowing? Some who have had no experience question the advisability of counting on the tractor for other than the work of plowing.

Osceola Co.

J. S.

Osceola Co. J. S. In general the answer is "Yes." It can be used for discing, seeding, harvesting, threshing, silo filling and in fact all belt work necessary to be done on the farm. It can be used in haying, in spreading manure, digging potatoes, grinding feed, baling hay shelling corn, sawing wood; in road grading, stump pulling, rock removal, ditching, and in practically every place where power is necessary.—F.

A HARD MILKER.

I have a three-year-old Holstein heifer that is hard to milk. She is a fine young cow and gives a large flow of milk. This is her second year and she does so well I want to keep her. What can I do toward making her easier to milk?—J. B.

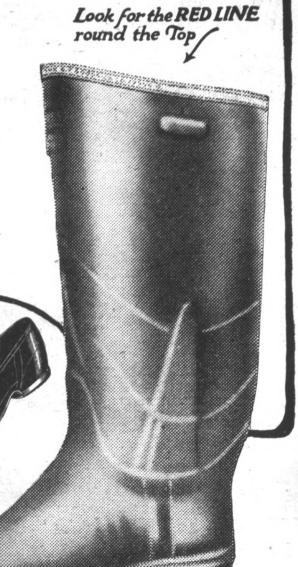
The reason your cow milks hard is because the little sphincter muscles at end of teat contract too much, leaving a very small opening for the milk to pass through, consequently it comes through in a fine stream. This condition can be remedied by persistent and careful work. Sometimes all that is necessary is to have a man with a strong hand milk the cow just as soon as she freshens, and milk fast, forcing the milk through this orifice in large streams. This dilates these sphincter muscles and usually they will not contract as much as before. If this treatment will not produce the results required, then you can get what is known as "Hard Rubber Milk Plugs." They are so shaped that when they are worked in the milk duct they will stay in there. You can put these plugs in and leave them in-till the next milkthem out and milk take the cow and put them back till you have dilated these muscles sufficiently so the cow milks more easily. You should take pains and have the milk plugs sterilized and covered with vaseline when inserting to prevent inflammation. It might be better for you if you have the local veterinarian perform this treatment for you if this is a valuable cow. One that is not accustomed to doing such things, sometimes works in such a careless manner that inflammation is produced and some injury done to the teat.-C. C. L.

"A toothache is a lot of company." So are large kitchens, haphazardly arranged.

Goodrich Rubber Footwear



PUBLIC approval follows leader-ship. Millions of people buy Goodrich Rubber Footwear just because it is Goodrich. The mere name is a surety of highest quality and longest wear. It stands for half a century of good faith with the buying public.



THE AUTO-OILED AERMOTOR

A Real Self-Oiling Windmill

Oil as Aermotor once a year and it is always

every dermotor once a year and it is always

Oil an Aermotor once a year and it is always oiled. Every moving part is completely and fully oiled. A constant stream of oil flows on every bearing. The shafts run in oil. The double gears run in oil in a tightly enclosed gear case. Friction and wear are practically eliminated.

Any windmill which does not have the gears running in oil is only half oiled. A modern windmill, like a modern automobile, must have its gears enclosed and run in oil. Dry gears, exposed to dust, wear rapidly. Dry bearings and dry gears cause friction and loss of power. The Aermotor pumps in the lightest breeze because it is correctly designed and well oiled. To get everlasting windmill satisfaction, buy the Aermotor.

Write today

AERMOTOR CO. Chicago

Des Moines
Oakland

Brown

Short

Boot



Ship to us Guarantee you will be satisfied with our check, or we will ship back your full to be satisfied with our check, or we will ship back your full.

Every trapper knows that the place to get highest prices is where they have experts assorting and grading. The fact that I grade every skin personally assures you of getting every cent your catch is worth. Don't take my word for it but ship a small lot at first and be convinced. You take no risk for my iron clad guarantee protects you.

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BUY DIRECT IN 20-TON CARS OR MORE.
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Eat Honey and keep well. Guaranteed pure door, postage paid. Five pound pail \$1.35. Sample isc.

John D. Dietrich, Middleville, Michigan

BEANS WANTED We wish to l. y Bountiful and Golden Wax Beans. Mail samples of S. M. ISBELL & CO. Jackson, Mich.

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

For Sale. 5 thoroughly broken beagle and rabbit hounds, good hunters and not gun shy.

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-all to give you the best value in a suit at the minimum price.

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se send me without obligation folder containing actual swatches of the Clothcraft serges, etc.

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A Real Bargain at HERSKOVITS Kope Kon Farms

We offer 40 big healthy yearling Shropshire and Hampshire Rams all registered at \$25.00 each. Come or write while the picking is good. S. L. WING, Coldwater, Mich.

The Maples Shropshires

For Sale. Extra well bred yearling Rams, also 2 yr. old stock ram sired by a Broughton Ram. Will sell a few good ewes and several Duroc Jersey spring boars. Brookwater bred. Write your wants early.

C. R. LELAND,

The Michigan Agricultural College offers for sale rams and ewes of the Shropshire, Hampshire, Oxford and Rambouillet breeds of sheep. For information write Department of Animal Hus-bandry, East Lansing, Michigan.

60 Head Registered Shropshire ewe and ram type. Priced to sell. Established 1890. O. LEMEN. Dexter, Mich

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

Shropshire Yearling Rams \$20.00 Each CARL TOPLIFF, Eaton Rapids, Mich

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

Shropshires 7 yearling rams also ram and ewe lambs. Buttar and Senator Bibby 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.

Registered Shropshire Rams

Shropshire Rams for sale. Also yearling Short horn bull. W. E. Morrish, R. 5, Flint, Mich. Shropshires 2 proven rams, 2 and 3 yrs. old, blocky and well wooled, farmers prices, FERNWOOD FARM, R. 3, Evart, 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 STOOK FARM, R. 1, Ionia, Mich.

Reg. Hampshire Rams all ages. Bred and priced right. Also reg. ewes all ages. W. W. CASLER. Orld, Mich.

Rambouilet Rams. None better bred At farmers price.

J. M. EAGER' R. 6, Howell, Mich.

For Sale Orford rams and ewes all ages priced to sell. Write your wants. GEO. T. ABBOTT, R. 2, Palms, Mich, Tel. Deckerville 78-3.





FOR SALE 30 yearling Delaine Rams, at farmers prices.
CALHOON BROS., Bronson, Mich.

Horticulture

A T a joint meeting of the executive committee of the Michigan State Horticultural Society and members of the State Board of Agriculture in Grand Rapids, an understanding was reached with the management of the Michigan Agricultural College to devote more attention during the coming year, with a production of nearly twice year and years to fruit growing and the many problems affecting the industry.

For a long time the fruit growers on the west side of the state have felt that their industry has not received the amount of attention from the college authorities that it should. They pleaded their case before the members of the state board, in the presence of Prof. David Friday, president-elect of the college, and as a result, they have been assured that their interests will be properly taken care of under the administration. They were given assurances that all experimental projects, especially the Graham experimental farm near Grand Rapids, would be better financed.

It is the plans of the horticultural department of the college to make the western Michigan farm one of the largest experimental projects of its kind in the United States. It now has an acreage of 100 acres, nearly all set out to fruits of all kinds. Purchase of additional land is under consideration but no action in that direction was taken at the recent meeting as far as could be learned.—D. L. R.

THE DECLINE IN APPLE OR-CHARDS.

RECENT figures released by the Census Bureau are interesting as they show that apple growing is not being overdone, although the general impression would lead a person to think to the contrary.

The census figures show that in 1910 there 151,322,840 bearing trees, while in 1920 there were only 115,285, 000, or a decrease of over thirty-six million trees. Newly set, or non-bearing tree figures give one the real surprise as there is a considerable decrease in 1920 as compared with 1910, the number of non-bearing trees in 1920 being 36,171,604, while those of 1910 numbered 65,791,848. This shows a decrease of nearly thirty million trees.

As there has been an increase in the bearing and non-bearing orchards in the west, these figures show the decline of apple orcharding in the central and eastern parts of the country. It shows for one thing, the gradual elimination of the old farm orchard which has never known modern orchard care. It should also make one realize that there are opportunities in this part of the country for apple orcharding which is carried on in a business-like manner. Western apples will never be such serious competi- considerable loss in many herds. This tion as to make the efficiently manage disease has also been serious among ed eastern orchard, with its market human beings and has taken its toll right at hand, an unprofitable venture. among farmers as well as in the urban In fact, western orchards are now centers. working to greater disadvantage than ever before because of freight rates.

WHERE THE 1921 APPLE CROP IS GROWN.

THE October forecast of the com-mercial apple crop, issued by the Bureau of Markets and Crop Estimates gives the United States a total of 19,-766,000 barrels. The principal apple growing states are estimated to produce as follows:

NEW ACTIVITIES IN FRUIT WORK. 000; Maine 649,000; Illinois 418,000; Montana 164,000; Idaho 852,000; Oregon 999,000; Pennsylvania 403,000; West Virginia 124,000; Ohio 430,000; Michigan 970,000; Colorado 834,000; Washington 7,793,000; California 1,. 298,000.

The state of Washington is the undisputed leader in production in this that of New York. Its production is nearly one-third of that of the entire

California comes third with a crop of over a million barrels and Oregon fourth with nearly a million. Michigan is fifth with a production of about 30,000 barrels less than Oregon.

The strictly western states will produce considerably over half of the apple crop of the country.

BULLETINS WHICH MAY HELP HORTICULTURISTS.

OWING to the limited number, not more than ten of these bulletins ordinarily can be sent free to any one individual, applying directly to the Department of Agriculture. Apply to your senator or representative, or to the Department of Agriculture. The bulletins may be purchased for five cents each from the Superintendent of Documents, Government Printing Office, Washington, D. C. Mention the bulletin number.

204. Cultivation of mushrooms.

434. Home production of onion seeds and sets.

460. Frames as a factor in truck gardening.

471. Grape propagation, pruning, and training.

554. Popcorn for the market.

750. Roses for the home.

Raspberry culture.

Everbearing strawberries.

917. Growing peaches; sites and cultural methods.

918. Growing peaches, varieties.

The farm garden in the north. 979. Preparation of strawberries for market. 1001. Growing fruits for home use,

1024. Currants and gooseberries. Strawberry culture in eastern

United States. 1028. Strawberry culture in west-

ern United States. 1034. Strawberry varieties in the

United States. 1053. Control of cherry leafspot.

1120. Control of apple powdery mildew.

Control of aphids injurious to 1128. orchard fruits, currants, gooseberry. grapes.

1160. Diseases of apples in storage.

CHRISTMAS SEAL CAMPAIGN.

 $R_{
m tiveness}^{
m URAL}$ people realize the destructiveness of tuberculosis through its work among cattle. It has caused

Because of this the Michigan Tuberculosis Association is looking to the rural communities for a strong support of the Christmas seal campaign through which the association gets its only means for carrying on public work in tuberculosis eradication.

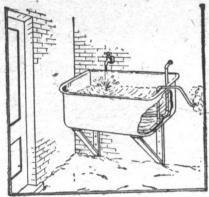
Seals will be on sale from Thanksgiving to Christmas. In most places they will be sold by the school children and perhaps through the churches. As before, they will sell for a cent apiece. "Buy Christmas seals and save New York 3,582,000; Virginia 198, human lives"-in the country.

GRANGE IS GROWING.

REPORT from Secretary Freeman A of the National Grange shows that this farmers' organization has had a most remarkable growth during the year from October 1, 1920, to September 30, 1921. In that period 203 suberdinate granges have been organized and twenty-four reorganized. Large growth is noted in Pennsylvania, Ohio and Washington. In these states, seventy-five new granges have come into being during the year, while nine have been reorganized. In Michigan there are two new subordinate granges and three that have been reorganized. Grange leaders contemplate a big year during 1921 and 1922.

NOVEL METHOD OF HEATING WATER.

On a farm in the southwestern part of the state they use the exhaust from the gas engine to keep the water in the stock watering troughs from freez-



The exhaust is discharged into ing. an old hot water tank and from there is piped through the wall of the building to a rectangular frame of pipe resting on the bottom of the trough. An elbow over the rim of the tank permits the exhaust to discharge into

MUCH LAND CLEARING IN PROS-PECT.

A FTER having secured some 42,000 pounds of TNT, last spring, for land-clearing purposes in Houghton county, Mr. L. M. Geismar, agricultural agent, has recently placed an order for 90,000 pounds of pieric acid, under the recent distribution of this explosive, for the same purpose, which represents about one-seventh of the state's total allotment. Mr. Geismar estimates one hundred pounds as ample to clear an acre of land, and in some cases less than this amount. It is evident that Houghton county is determined to bring under the plow a very much larger area of its excellent agricultural land. Agent Johnson, of Alger county, estimates his county's present requirements at some 16,000 pounds. The Iron County Agricultural Commission has recently ordered a carload of picric acid, which, with previous or ders of the year signifies says "Th Diamond Drill" of Crystal Falls tha 100,000 pounds of explosives have been used on the farms of Iron county since last March for removing stumps and stones.-L. A. C.

VETCH SEED NEEDED AT HOME.

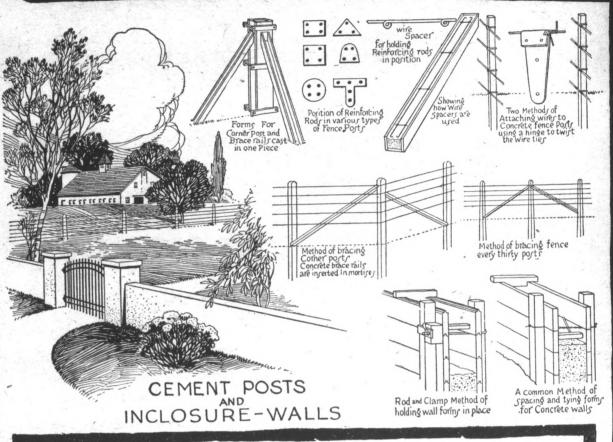
M OST of Michigan's wetch crop remained in the state this year, according to observations of the farm bureau. The seed department alone turned some 40,000 pounds of vetch back to Michigan farmers and reported that Michigan's demand greatly exceeded the sales to other states.

Remember that a bushel of plucked ears holds two gallons of water. Handle and store seed corn accordingly.

Silage makes the steer grow and at a price you can afford, even at the present market.

With scrub live stock, "multiplication is vexation."





The above sketches show the helpfulness of the ALPHA Service Sheets and Special Bulletins, which cover the follow-

The above sketches ing improvements; Workingmen's Homes Walkways and Driveways Cement Roads Bridges and Culverts Foundation and Hatchway Gutter and Curb Storage Cellar Small Warehouses Soring House

Small Dam Milk House Manure Pit Septic Tank Oil Storage Tank Tennis Court Inclosure Walls Barn and Silo Cement Blocks

Corn Crib Poultry House Storage House Smoke House Hog house
Dipping Vat
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The local ALPHA CEMENT dealer has been authorized to give you, with our compliments, a copy of any Sheets or Bulletins that interest you, also a copy of the 96-page, illustrated ALPHA Handbook on cement construction, giving much helpful information on form-building, mixing, placing, reinforcing, curing, water-proofing of cement work, etc. If your dealers supply is exhausted, he can get more from us.

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1000 Ferrets they hustle RATS and rabbits, N. A. KNAPP & SON, R. 2, New London, Ohio

SHELTER AND FEED THE DAIRY COW NOW.

DECREASED profits now and later result from exposure of the milch cows to fall storms and from the lack of nourishment in the unsupplemented fall pastures. Prof. O. E. Reed, head of the dairy department of the Michigan Agricultural College, is urging all farmers and dairymen to pay careful attention now to housing the cows, since the animals are not yet accustomed to bad weather conditions. A little attention is more important at this time than later. Not alone is this true because the cows are not hardened to the more rigorous weather of the colder months but once the milk flow has been lessened through exposure and lack of nutritious feeds it is almost impossible for the animals to recover. Start the grain without delay to help the animals keep up milk production. Incidentally this is probably the best way to market grain which now commands a short price at the elevators.

HIGHER PRICES FOR "CULTURE" SWISS CHEESE.

THE manufacture of Swiss cheese from purified and controlled cultures is an American development. Federal investigators and scientists have perfected the method which has been worked out on a practical scale at the dairy laboratories in connection with the commercial factories at Grove City, Pa.

Michigan dairymen will be interested in the results which have been ob tained by two Ohio factories where the culture method of making this type cheese has been given a fair trial. For the cheese made in June of this year one of these factories received a straight price of 34% cents a pound; the other factory, 30 cents. At the same time other factories in this area received from 20 to 22 cents. Only one of them succeeded in selling for as high as 25 cents. For the July product, one of the factories received 36 cents for fancies and No. 1, and 27 cents for No. 2. The old-system factories received the same price as for June cheese.

The principal reason the buyers were willing to pay this margin over the general run of cheese made in the locality was that the percentage of high-grade cheese had been greatly increased. In June one of these two factories made 94 per cent of fancy and No. 1 cheese and the other 90 per cent whereas many factories using the old method make only 25 per cent of this class of product.

STEERS GRAZED ON CUT-OVER LANDS.

M. W. L. SAUNDERS, of Cadillac, who pioneered the way for the better sire movement in Michigan by the exchanging of forty-seven purebred bulls for scrubs in Wexford county several years ago, is advocating a new method of clearing cut-over lands in northern Michigan. He has been conducting a number of experiments during the past season, the most successful of which was the grazing of cattle on these lands.

Early last spring he turned sixty head of cattle out to pasture in a cutover tract and the only attention he gave them all summer was to see that they had plenty of salt licks. The animals did a great deal of browsing and trampled and killed much underbrush. They had done considerable in cleaning up the land, making it possible for men to remove the trees and remaining bushes in a short time. Late in September he shipped the steers to market. During the period the sixtyanimals pastured on the cut-over land they gained 367 pounds per head.—R.



Stop Overworking Old King Coal

and give Old Man Air a chance

Everybody has always believed that the only way to get more heat was to feed the furnace more coal. The Moncrief system is better and cheaper. It gives you a warmer house by circulating a larger volume of air around the furnace and up into your rooms, not by the burning of additional fuel. The Moncrief Pipeless Furnace provides the biggest volume of air circulation because its casings or air chambers are extraordinarily large.

Every square inch of the surface of the Moncrief Pipeless Furnace does full duty by conveying all the available heat in the fuel to the circulating air current. The straight side firepot prevents banking of ashes and insures free combustion of fuel. The feed section is in one piece, designed for strength, with corrugated exterior to give greater heat radiation. The long fire travel radiator sends the smoke up the chimney without sending up the heat.



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There's a quarter of a century of experience built into every Moncrief Pipeless Furnace and a life-time of service ahead of it for you. It is made of the finest grey iron castings to stand harder knocks than you will ever give it—and harder firing than it will ever need to keep your house warm. The ground and fitted joints

insure all the smoke going up the chimney; while the big casings make it certain that all the heat goes into the house.

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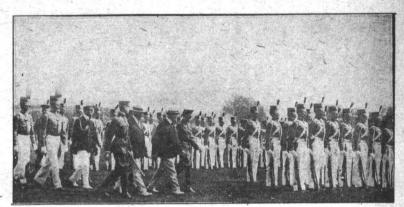


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WORLD EVENTS IN PICTURES



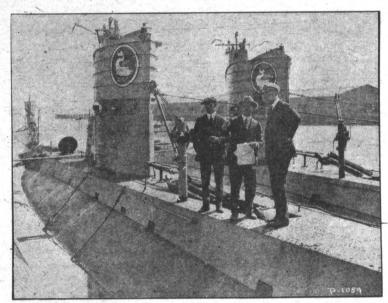
Sir Earnest Shackleton, famous polar explorer, starts on a 30,000 mile voyage of exploration.



President Harding and Secretary of War Weeks review the maneuvers of the West Point Cadets.



Lieut. J. A. McCready in his altitude record-breaking attire.



The submarine R-6 which floundered off the San Pedro naval base September 27.



The Prince of Wales enjoys himself at a Scottish celebration.



A general view of the Polo Grounds, New York City, where the world's series games were played.



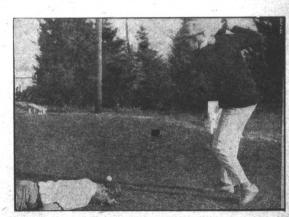
Some of the many German homes recently wrecked by the explosion at one of the big German dye works.



H. A. Rigby rides a bicycle across English channel in twelve hours.



One of the many youthful sufferers in Armenia.



Knocking golf balls off a man's head requires accuracy.

THE BLIND MAN'S EYES

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By William MacHarg and Edwin Balmer

Copyright by Little Brown & Company

Sinclair was still bending over the naked torso. With Eaton's help, he had turned the body upon its back in order to look at its right side, which a strong, healthy body; Sinclair guessmight have been an athlete—a college track-runner or oarsman-and he had kept himself in condition through middle age. There was no mark or bruise side and just below the ribs there now showed a scar about an inch and a half long and of peculiar crescent shape. It aisle. was evidently a surgical scar and had completely healed.

Sinclair scrutinized this carfeully and then looked up to Avery. "He Avery evaded. was operated on recently"

"About two years ago."

"For what?"

"It was some operation on the gall- ered: "Isn't this Basil Santoine?" bladder."

"Performed by Kuno Garrt?"

Avery hesitated. / "I believe so."

He watched Sinclair more closely as he continued his examination; the sur four men standing by the berth, the on the pillow and seemed about to sharp shock of surprise; with it had than anywhere else-and in their laid the pajama jacket over the body and horror over what had happened to and drew up the sheet and blanket, the passenger who had been confided Connery touched the surgeon on the to his care, which made him whiten as And where and when do you want to

you pull down the window-curtains?" he directed.

ing about at the three others as though mind while he forgot or had not projects, immersed day and night in vealing himself by his spoken, and to select from them the one most likeit to Eaton. "Will you help me, please?"

"What is it you want done?" -then draw it away slowly."

He lifted the partly closed eyelid scious man and nodded to Eaton; blind. His connections-the family "Hold the light in front of the pupil."

and exposed the other pupil.

'What's that for?" Avery asked. cause the pupil to contract."

"Could it?" Connery asked.

"No; there was no reaction."

be no reaction, I believe, Dr. Sinclair." "What do you mean?"

"His optic nerve is destroyed."

"Ahh! He was blind?"

before had been hidden. It had been and operated upon within two years by to recognize that in this struggling Kuno Garrt!" ed its age at fifty. As a boy, the man only upon the all-rich-and-powerful or compelling mind. Santoine, a youth upon the completely helpless and living in darkness, unable to see the poor; the unconscious man in the men with whom he talked or the docberth could belong only to the first uments and books which must be read class of Garrt's clientele. The sur- to him, was beginning to put the stamp upon the body, except that on the right geon's gaze again searched the fea- of his personality on the firm's affairs. tures in the berth; then it shifted to A year later, his name appeared with the men gathered about him in the others of the firm; at twenty-eight, his

demanded of Avery.

"I said his name was Nathan Dorne,"

and finished in /a voice suddenly low-

Avery, if he still wished to do so, found it impossible to deny.

To the conductor alone, among the geon had glanced quickly at the face name seemed to have come with the question Avery again; but instead he come an added sense of responsibility "What must be done, Doctor? he once more repeated the name to receives publicity and reward by being himself and stared down at the man in the berth.

Sinclair, however, it appeared, had Conductor Connery knew Basil San-not yet finished his examination. "Will toine only in the way that Santoine people—that is, by name but not by As Connery, reaching across the sight. There was, however, a reason body, complied, the surgeon took a why the circumstances of Santoine's matchbox from his pocket, and glanc- life had remained in the conductor's heeded the same sort of facts in re ly to be an efficient aid, he handed gard to men who traveled much more often on trans-continental trains. Thus Connery, staring whitely at the form "Strike a light and hold it as I direct in the berth, recalled for instance Santoine's age; Santoine was fifty-one.

Basil Santoine at twenty-two had lingly from his obscurity. from one of the eyes of the uncon- been graduated from Harvard, though

Kuno Garrt operated law-firm there was a powerful, clear, was the leading name. He had begun "Who did you say this was?" he to specialize long before that time, in corporation law; he married shortly after this. At thirty, the firm name represented to those who knew its par-"No, no!" Sinclair jerked out impa- ticulars only one personality, the per-"Isn't this-" He hesitated, sonality of Santoine; and at thirty-five -though his indifference to money was proverbial-he was many times a millionaire. But except among the small and powerful group of men who had "Basil Santoine." Connery breathed. learned to consult him, Santoine himself at that time was utterly unknown.

There are many such men in all anonymity they are like minds without and so they remain out of public view, ed to the President's cabinet. More often, the public knows little of them was known to great numbers of other until they die and men are astonished by the size of the fortunes or of the tion had been of the sort the publicseemingly baseless reputations which and therefore the newspapers-love. they leave. So Santoine—consulted The blind man, led into the court, sitcontinually by men concerned in great ting sightless in the witness chair, repletely as he wished—had been, at the one of the unknown guiders of the desage of forty-six, great but not famous, tiny of the Continent and as counselor powerful but not publicly known. At to the most powerful—himself till then that time an event had occurred which , hardly heard of but plainly one of the had forced the blind man out unwik nation's

the great western financier Matthew himself, lost temporarily their interest was of well-to-do southern stock—his Latron. There had been nothing in in the public curiosity over the person-Eaton obeyed, drawing the light possession of enough money for his this affair which had in any way shad- ality of Santoine. So, ever since, Sanslowly away as Sinclair had directed, own support, made it possible for him owed dishonor upon Santoine. So toine had been a man marked out; his and the surgeon dropped the eyelid to live idly if he wished; but Santoine much as in his role of a mind without goings and comings, beside what they had not chosen to make his blindness personality Santoine ever fought, he might actually reveal of disagreements an excuse for doing this. He had dis- had fought against Latron; but his or settlements among the great, were "I was trying to determine the ser- regarded, too, the thought of foreign fight had been not against the man but the object of unfounded and often disiousness of the injury to the brain. I travel as being useless for a man who against methods. There had come then turbing guesses and speculations; and was looking to see whether light could had no eyes; and he had at once set- a time of uncertainty and unrest; pub- particularly at this time when the cirtled himself to his chosen profession lic consciousness was in the process of cumstances of Warden's death had which was law. He had not found it awakening to the knowledge that proclaimed dissensions among the poweasy to get a start in this; lawyers strange things, approaching close to erful which they had hastened to deny, Avery started to speak, checked him- had shown no willingness to take into the likeness of what men call crime, it was natural that Santoine's comings self—and then he said: "There could their offices a blind boy to whom the had been being done under the unas- and goings should be as inconspicuous surroundings were unfamiliar and to suming name of business. Government as possible. whom everything must be read; and investigation threatened many men,

more strongly against Latron than perhaps against any of the other western men. He had been among their biggest; he had his enemies, of whom impersonally Santoine might have been counted one, and he had his friends, both in high places; he was a world figure. Then, all of a sudden, the man had been struck down-killed, because of some private quarrel, men whispered, by an obscure and till then unheard-of man.

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The trembling wires and cables, which should have carried to the waiting world the expected news of Latron's conviction, carried instead the news of Latron's death; and disorder followed. The first public concern had been, of course, for the stocks and bonds of the great Latron properties: and Latron's bigness had seemed only further evidenced by the stanchness with which the Latron banks, the Latron railroads and mines and public utilities stood firm even against the shock of their builder's death. Assured of this, public interest had shifted to the trial, conviction and sentence of countries-more, perhaps, in America Latron's murderer; and it was during this trial that Santoine's name had become more publicly known. Not that physical personality; they advise only, the blind man was suspected of any knowledge-much less of any complicbehind the scenes. Now and then one ity-in the crime; the murder had been because of a purely private matsent to the senate by the powers that ter; but in the eager questioning into move behind the screen, or being call- Latron's circumstances and surroundings previous to the crime, Santoine was summoned into court as a witness.

The drama of Santoine's examinavast affairs, capable of living com- even more by his withheld, replies as "uncrowned rulers"—had caught the public sense. The fate of This event had been the murder of the murderer, the crime, even Latron

It had been reported for some days he had succeeded only after great ef- Latron among others; no precedent that Santoine had come to Seattle difort in getting a place with a small and had yet been set for what this might rectly after Warden's death; but when "Yes, he was blind," Avery admitted. unimportant firm. Within a short time, mean; no one could foresee the end. this was admitted, his associates had Blind!" Sinclair ejaculated. "Blind well within two years, men had begun Scandal—financial scandal—breathed always been careful to add that San-

AL ACRES-Slim's Tussle with Tin Alarms Al.



affairs among the powerful were truly Warden's death, must be of the gravest significance.

moment with this fuller recognition of had come upon this man entrusted to his charge; then he turned to the sur-

"Can you do anything for him here, Doctor?" he asked.

The surgeon glanced down the car. "That stateroom—is it occupied."

"It's occupied by his daughter." "We'll take him in there, then. Is the berth made?"

The conductor went to the rear of the car and brought the porter who had been stationed there, with the brakeman. He set the negro to making up the berth; and when it was finished the four men lifted the inert the drawing-room and laid it on its back upon the bed.

"I have my instruments," Sinclair said. "I'll get them; but before I decide to do anything, I ought to see his daughter. Since she is here, her consent is necessary before any operation on him."

The surgeon spoke to Avery. Eaton saw by Avery's start of recollection that Harriet Dorne's-or Harriet Santoine's-friend could not have been thinking of her at all during the recent moments. The chances of life or death of Basil Santoine evidently so greatly affected Donald Avery that he had been absorbed in them to the point of forgetting all other interests than his own. Eaton's own thought had gone often to her. Had Connery in his directions said anything to the trainmen guarding the door or to the passengers on the platforms, that had frightened her with suspicions of what had happened here? When the first sense of something wrong had spread back to the observation car, what word had reached her? Did she connect it with her father? Was she-the one most closely concerned-among those who had been on the rear platform seeking admittance? Was she standing there in the aisle of the next car waiting for confirmation of her dread Or had no word reached her, and must the news o fthe attack upon her father come to her with all the shock of suddenness?

Eaton had been about to leave the car, where he now was plainly of no use, but these doubts checked him.

"Miss Santoine is in the observation car," Avery said. "I'll get her."

The tone was in some way false-Eaton could not tell exactly how. Avery started down the aisle.

"One moment, please, Mr. Avery!" said the conductor. "I'll ask you not passengers that there has been an attack upon her father. Wait until you get her inside the door of this car."

that can have made her suspect it?" Eaton asked.

Connery shook his head; the conductor, in doubt and anxiety over exactly what action the situation called for-unable, too, to communicate any swered, and stood holding to the back hint of it to his superiors to the west because of the wires being downclearly had resolved to keep the attack upon Santoine secret for the time. "I said nothing definite even to the trainmen," he replied; "and I want you gentlemen to promise me before you leave this car that you will say nothing until I give you leave."

toine, having been a close personal one to another, until he had assured friend of Gabriel Warden, had come himself that all agreed. As Avery left purely in a personal capacity, and the the car, Eaton found a seat in one of impression was given that Santoine the end sections near the drawinghad returned quietly some days before, room. Sinclair and the conductor had The mere prolonging of his stay in the returned to Santoine. The porter was west was more than suggestive that unmaking the berth in the next section which Santoine had occupied, havin such state as Warden had proclaim- ing been told to do so by Connery: ed: this attack upon Santoine, so sim- the negro bundled together the linen ilar to that which had slain Warden, and carried it to the cupboard at the and delivered within eleven days of Turther end of the car; he folded the blankets and put them in the upper berth; he took out the partitions and Connery stood overwhelmed for the laid them on top of the blankets. Eaton stared out the window at the bank of the seriousness of the disaster which snow. He did not know whether to ask to leave the car, or whether he ought to remain; and he would have gone, except for the recollection of Harriet Santoine. He had heard the rear door of the car open and close some moments before, so he knew that she must be in the car and that, in the passage at that end, Avery must be telling her about her father. Then the curtain at the end of the car was pushed further aside, and Harriet Santoine came in.

She was very pale, but quite controlled, as Eaton knew she would be. She looked at Eaton, but did not speak as she passed; she went directly to figure of Basil Santoine, carried it into the door of the drawing-room, opened it and went in, followed by Avery. The door closed and for a moment Eaton could hear voices inside the room-Harriet Santoine's, Sinclair's, Connery's. The conductor then came to the door of the drawing-room and sent the porter for water and clean linen; Eaton heard the rip of linen being torn, and the car became filled with the smell of antiseptics.

Donald Avery came out of the drawing-room and dropped into the seat across from Eaton. He seemed deeply thoughtful-so deeply, indeed, as to be almost unaware of Eaton's presence. And Eaton, observing him, again had the sense that Avery's absorption was completely in consequences to himself, of what was going on behind the door-in how Basil Santoine's death or continued existence would affect the fortunes of Donald Avery.

"Is he going to operate?" Eaton asked.

"Operate? Yes; he's doing it," Avery replied shortly.

"And Miss Santoine?"

"She's helping—handing instruments and so on."

Avery could not have replied, as he did, if the strain this period must impose upon Harriet Santoine had been much in his mind. Eaton turned from him and asked nothing more. A long time passed-how long, Eaton could not have told; he noted only that during it the shadows on the snowbank outside the window appreciably changed their position. Once during this time, the door of the drawing-room was briefly opened, while Connery handed something out to the porter, and the smell of antiseptics grew suddenly stronger; and Eaton could see behind Connery the surgeon, coatless and with shirt-sleeves rolled up, bending over the figure on the bed. Finally the door opened again, and Harriet to tell Miss Santoine before any other Santoine came out, paler than before, and now not quite steady.

Eaton rose as she approached them; and Avery leaped up, all concern and "You yourself said nothing, then, sympathy for her immediately she appeared. He met her in the aisle and took her hand.

"Was it successful, dear?" Avery

She shut her eyes before she anof a seat: then she opened her eyes. saw Eaton and recognized him and sat down in the seat where Avery had been sitting.

(Continued next week).

entlemen to promise me before you eave this car that you will say nothing intil I give you leave."

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Vigilance

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Michigan Farmer Pattern Service

CATALOG NOTICE.

1922 catalog, containing over five hundred designs of ladies', misses' and children's patterns, a concise and comprehensive article on dressmaking, also some points for the needle (illustration distribution of the needle control of the needle co trating thirty of the various, simple stitches) all valuable to the home dressmaker.





and four years. A two-year size will Send 15 cents in silver or stamps for the coat and threequarters of yard for our up-to-date fall and winter 1921- for the cap. Price 12c.



No. 3374—Ladies' House Dress. Cut in seven sizes, 36, 38, 40, 42, 44, 46 and 48 inches bust measure. A 38-inch size will require six yards of 36-inch material.

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No. 3743—Child's Coat and Cap. Cut inch material for the overalls and 1½ in four sizes, six months, one year, two yards for the blouse. Price 12c.

Woman's Interests

An Unusual Hallowe'en Party

By Nelle Portrey

a little square, buff envelope ad- which the name became visible. dressed in black ink in our mail box. a buff card on which was written:

"At Bonnie Vale Farm on All Hallow-

An old-fashioned party is going to be

we'll ask.
A prize will be given for the cleverest mask

That is made out of corn husks and just your own size;
The best costume present will also win

a prize. Now hunt up some ideas, ransack your brain through,

And don't disappoint us, for we are counting on you."

Upon our arrival at the party, we window of the house. We scrambled only by Jack O'Lanterns. The ears of got apples with numbers that correscorn, as a Hallowe'en decoration, were a charming variation of the usual trim fore the next Hallowe'en. mings for Hallowe'en entertainment.

ed to be bright-colored cheesecloth or bunting, closely followed by yellow prize-winning costume was worn by a black-haired girl. She represented a pumpkin. Her costume was made after the style of a clown suit, but much fuller. It was of pumpkin-colored neck and ankles.

The mask which won the prize was made by a boy. The upper part was made of one large corn husk with had been hung across the upper half holes cut out for the eyes and nose, of the doorway so, although I was The cheeks were painted with water colors and a long beard made of the shredded corn husks was attached. A how I felt when my face struck against "booby" prize was also given for the the cold rubber. poorest costume and mask.

tions were candy boxes. The tops were well padded with cotton sheet wad ding and neatly covered with silk. The sides of the boxes were covered with folded corn husks, prepared as follows: The husks were cut in pieces two inches long and one inch in width. They were then folded lengthwise Next they were folded so that the the top. These were sewed securely the wrists. to the boxes in rows, beginning at the The points stuck about one-third of an the best in the allotted time. inch above the top of the box, making was so attractive that every girl at the balls. party resolved to make one for herself in the near future. A box can be made in an hour.

The "booby" prizes were ears of corn dressed like comic dolls, in yel-

of paper on which was written a girl's

AST year, about ten days before requested to hold the paper over a Hallowe'en, the mail carrier left lighted candle for a moment after

Of course, a Hallowe'en party would Upon opening it, I found it contained not be complete without having every one's fortune told. For this we repaired to the lawn, where we were each given an end to a string and told seen.

The crowd is a small one; just twenty laughter ensued. The strings crissto follow it to seek our fortunes. Much crossed and ran in and out among the shrubbery in every conceivable way. When the ends were finally found, our fortunes were discovered, written on paper which was wrapped in corn husks and tied to the end of strings.

Next a variation of the old game, "Bobbing for Apples," was enjoyed. The apples had numbers carved on them; two of each number. Each girl were met at the gate by a ghost who and boy were allowed to keep the apsilently slipped out from benind some ple they succeeded in biting. After shrubbery and escorted us to a rear everyone had an apple, the numbers were compared. When two girls or in and found ourselves in a wierdly two boys got apples numbered the lighted room decorated in yellow ears same, they were to be old maids or of corn with the husks on, and lighted bachelors; but when a boy and a girl ponded, they were to be married be-

We were then blindfolded and led There were a great variety of cos- back to the house, one at a time, by a tumes, but the favorite material seem- ghost. Many gruesome and shivery objects and encounters were met before we reached the house. Once when and orange colored crepe paper. The I stumbled over a broomstick laid across the path, a being with cold clammy hands assisted me to my feet and asked in a hollow voice if I could direct him to the nearest graveyard.

Once something warm and furry crepe paper and gathered full at the brushed against my face, and again I felt a little dash of cold water thrown directly in my face.

During our absence, a rubber sheet groping before me, my hands reached below the sheet and you can imagine

My guide then led me across the The prizes were dainty neckties or room and asked me to shake hands handkerchief boxes, made by the cley. With a friend of his, at the same time er fingers of the hostess. The founda giving me something very much the shape of a human hand. It was the most gruesome object I ever touched. It was ice-cold, pliant, and although it felt as though void of life, it seemed to wriggle in my grasp. When I dropped it, my guide removed the cloth from my eyes and I saw before me a white-robed figure with a Jack O'Lantern head, and hands (one of which I edges that had been previously folded held) made by filling rubber gloves were side by side, leaving a point at with ice-water and tying them shut at

Each couple were then given a small top. Each row hid the stitching of the pie pumpkin and allowed fifteen minpreceding row and the bottom row was utes to make a Jack O'Lantern. A sewed at right angles to the others. Prize was given to the couple making

Finally we all gathered around a a very pretty decoration. The boxes bonfire and were served to sandwichwere then neatly lined and the result es, pumpkin pie, coffee and popcorn

A few good Hallowe'en and ghost stories were told by the light of the bonfire before reluctant good nights were said.

low crepe paper.

To find their partners for the evening, the boys were each given a slip ing, the boys were each given a slip ing."

A clock that keeps time is an essential on the business farm. Stop transposing "kitchen time" to "setting-room time," and both to "whistle time."

or paper on which was written a girl's Every time a bird is killed, there is name with invisible ink. They were joy in Bug-dom.

Women at West Mich. Fair

Grand Rapids the third week in Sep- Bantams. tember. Though more than half of the invaded realms considered the property of men.

There were two exhibitors of horses, for instance, Miss Betta Ferguson, of Grand Rapids, who had seven fine roadsters competing, and Miss Mary Dodson, also of Grand Rapids, whose pony took a prize, the two exhibits carrying away \$143.

Marjorie Hompe showed five Guernseys from her farm just east of Grand Rapids, and won \$20 on them. There were five prize winners in the poultry section, with prizes aggregating \$36.25. Canned fruit and vegetable exhibitors -fourteen in number, carried away \$117.54; eighteen exhibitors in the culinary department won \$89.75; six promising horticulturists took away \$46.25, and fifty-four needlework artists secured the grand total of \$409.50.

The poultry section was in charge of a woman, Mrs. Colon Brander, who is assistant secretary of the West Michigan Poultry Association. Mrs. Brander is a city woman, who for a while divided her time between an office job and rabbits, and then decided to give all her attention to rabbit raising, with the result that her rabbits carried away six firsts and one second prize at the fair. Mrs. Brander was enthusiastic over the possibilities in rabbit

"There's the white Angora rabbit, with its long silk wool," she said. "They are clipped and the wool made into a fabric not unlike fibre silk. They make the finest of felt hat and derbies, a little hook on the end of the hair making it ideal for this sort of material. The natural gray Flemish skins are tanned with oak bark and made into fox fur for your muff and neck piece. We can get \$12 for a single skin. The blue Flemish skins make lovely moleskin pieces. The black Himalyan, a white rabbit with black tail and feet, is made into ermine. The New Zealand, a yellow-furred rabbit, is dyed black and becomes near seal, sealette, sealine, or even seal if you don't watch out; dyed dark brown it nuity on the part of the women who becomes beaver, and dyed blue it is moleskin. Even the American blue rabbit, with a shorter fur, becomes mole REGARDING THE RURAL SCHOOL. when it is skillfully handled."

Mrs. Brander contradicted the common impression of the layman that reheated until it breaks into pieces, and in the winter hay, rolled oats and bread and milk. In the summer when not feel that the criticism is exagger-I have green corn I give them the ated. stalks," she said. "Many rabbits can water. Water, however, gives them a smooth, shiny coat."

exhibiting and attending the shows. children of their age? Why do at least "It is the only way to learn," she de- half-a conservative estimate-of the about exhibiting, my success with my stock has been much greater. One ex- understood that only high school hibitor here could not tell why her ex- teachers-who usually must be college hibit did not draw prize money. The graduates-and grade teachers who birds looked all right to her. But af ter talking with the judges she learned for their work, receive higher wages what points to consider in selecting than rural teachers. prize birds, and next year she will be a winner."

Other women exhibitors in poultry were Mrs. W. B. Karr, of Grand Rap kegon, Barred Rocks; Mrs. M. D. Petersen, Sand Lake, Light Brown Leg horns; Mrs. H. Dutcher, Grand Rapids

OMEN exhibitors carried away Coopersville, Barred Rocks; Mrs. J. \$862.25 in prizes from the West Doris, Muskegon, Golden Wyandottes; Michigan State Fair, held in Mrs. I. Rood, Grand Rapids, Seabright

Mrs. Ida. M. Bailey, who had charge exhibitors sent in needlework, women of the culinary department, was as firmly convinced as Mrs. Brander that attendance at fairs and studying the other fellow's exhibits is a great educative force.

"If the woman who wonders why her bread or cake or pie did not get a prize would consider it honestly, as it stands by the prize winner, she would see where hers fell short," declared Mrs. Bailey. "Consider this prize-winning pumpkin pie, golden brown, smooth, fine-grained, with flaky crust, just the right shade of brown; not pale, and not scorched or dangerously near it; and the lemon pie, a perfect jelly, with frosting firm. The prize cake is fine-grained and even across the top, not filled with air holes, and not soggy nor dry. Good bread should have a smooth, tender, golden brown crust, with a spongy tender crumb, the air holes small and uniform in size. The loaf should be smooth, and wellshaped, not bulged out or broken open. Cookies should be moist, dry ones mean too much flour.

"Then mistakes are made in entering products. Some entered white cakes with chocolate frosting as chocolate cakes, while a chocolate cake is one in which chocolate is used in the batter. A white fruit cake was entered as a dark one, and raised biscuits were entered as rolls."

An interesting feature of the art department was the number of handmade rugs. One beautiful specimen of braided rug showed almost perfect handiwork. A crocheted rug which any woman could quickly copy was very attractive. It was in two shades of blue, crocheted in strips about six inches wide, and fastened together with the two colors alternating.

There were numerous quilts and bed spreads, and an interesting exhibit of made-over garments, children's union suits cut down from grown-up's B. V. D.'s or pajamas, and many an attractive frock for a small girl made out of mother's old Sunday best. This exhibit showed especial skill and ingedid the work.

E read with interest and consternation the arraignment of the rabbits require a great deal of green rural school, in the Michigan Farmer food. "We feed our rabbits dry bread, of September 24. And, judging from conditions in the limited area over which our experience extends, we can-

Yet why, in view of these facts, do a be raised without ever giving them greater proportion of country children than of city children enter and finish high school courses, doing without dif-Mrs. Brander is a firm believer in ficulty the same work done by city clared. "Since I dropped everything class honors each year go to country but rabbits and poultry and have gone children? And is it true that rural teachers are so underpaid? We have have been very thoroughly prepared,

> Or do the conditions to which I call your attention exist only in southern Michigan

The only conclusion which at once ids, who exhibited White Leghorns and occurs to us is the probably false one Anconas; Mrs. Rena Murphy, of Mus- that the sons of the soil are either more intelligent or more enterprising than their urban cousins. Will someone please explain? I ask in a spirit White Orpingtons; Mrs. W. S. Nixon of inquiry, not controversy?—S. McQ.

QUALITY SIGN OF

Milk Bread Recipe

3 quarts of Lily White Flour. 3 pints of lukewarm milk. 1 cake of Fleischmann's yeast. Set in morning in warm place and rise until light. 3 teaspoons of salt. 1 tablespoon of sugar. 1 tablespoon of melted butter or lard. Mix with Lily White Flour until stiff, or from 20 to 25 minutes. Set in warm place and let rise until light. Make in loaves and work each loaf from six to eight minutes. Set in warm place until light. When light take warm milk and sugar and put over top. Keep good fire and bake slow one hour and when baked wash over again to make nice smooth brown crust.

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Our Boys' and Girls' Department

THE TEXAS BOYS' EUROPEAN TRIP.

THE three Texas farm boys who were sent to the annual agricultural and live stock show of the Royal Agricultural Society of England in July by the Southeastern Fair Association as a prize for winning the live stock judging competition held for boys' agricultural club members at the fair in Atlanta, Ga., last fall, have returned after a trip rich in experience and inspiration.

The successful boys were Gilbert Wieting, of Marlin, Falls county; Jack Turner, of Hillsboro, Hill county, and Alva Debnam, of La Mesa, Dawson county. They were accompanied on the trip by H. H. Williamson, state agent in charge of county agent work of the Agricultural and Mechanical College of Texas; H. B. Ross, county agent of Falls county; and I. W. Hill of the United States Department of Agriculture in charge of boys' agricul Rhodes, state fair school boy from Bentext books. tural club work in the southern states.

Show Covered One Hundred and Forty Acres.

After landing at Liverpool, the party eth annual show of the Royal Agriculway stops were made at Chester to waiting for the big show to begin. see the fine live stock farm maintained by the Duke of Westminster, and at counties in Michigan made up the hap- counties might be seated in that fair Crewe the Americans were given an py bunch. Each one of these boys grand stand. opportunity to study the English mar- stood highest in the eighth-grade exketing system. Two days were devot- aminations held in each county last found out for the first time that there ed to a thorough inspection of the Roy- spring and won a week's trip to the were boys' and girls' agricultural clubs al Show, where they saw the most re- fair with all expenses paid by the state all over the state and that a number markable exhibition of pure-bred cat- fair board. And they had the time of of teams were at the fair to give team tle, hogs, sheep and horses to be found their lives and learned more of a demonstrations.-J. H. B. in the Old World, including over 3,500 animals.

seventy-nine shows that have preceded including a visit to the farm of the tendance from Denmark, France, Hol- Duthie, near Aberdeen. land, Spain, and even from the Far East, looking over the display and competing in the sales of stock. The American boys had an unusual opportunity to see the best in live stock Telf Club of Iron county, had its have to offer, selected from the sixty tember 22. The boy winning the highor more breeds of cattle, horses, sheep, and swine that England can boast.

Hardly second in interest to the live stock display was the exhibition of ag- three highest averages will have a free ricultural machinery, including Euro- trip to the International Live Stock owing to the necessity for importing the Michigan Agricultural College, who class, but you can't make me quit. a large proportion of the feeds used, English live stock feeders excel in the economical feeding of concentrates.

Following the visit to the royal show the boys traveled to London. A pleasant feature of their stay in London was their entertainment on the Fourth of July as guests of the Daily Mail at Welwyn. Here they found a young farmers' club started by Lord Northcliffe and patterned after boys' and girls' clubs of this country. Guests at the luncheon included representatives of the British Department of Agriculture and fisheries and the American Embassy. Many cordial invitations from English farmers and breeders to visit their excellent herds and other agricultural enterprises of interest gave the young Americans the chance to know their English cousins at first hand and to taste of the hospitality that is traditional in Old England.

Leaving London, the party went on a hasty tour through France, Belgium



School Boys See State Fair Show

exclaimed Earl zie county, to his chum, Joe Mallinger, in the center of the grand stand had whole county," said Earl to Joe. been given them for one afternoon proceeded to Derby, where the eighti- during the fair. The immense struc- Crawford county is smaller than Benture was packed with fair visitors zie, and it might be easy enough to tural Society was in progress. On the when we took this picture of the boys chuck all our folks in." But both boys

My, what a folt of folks in this greater variety of things than they grandstand!" exclaimed Earl could secure in a year's study from could secure in a year's study from

"I'll bet there's more folks in this from Crawford county. Reserved seats big grand stand than we have in our

"I don't believe it," replied Joe, "but and others may be surprised to know One boy from each of nearly eighty that the entire population of both

Some of the boys while at the fair

The show, which covers one hundred and the Netherlands, returning to Lon- graded and awarded honors to the and forty acres, was the greatest in don and from there to Edinburgh, from boys whose calves graded the highest. the history of the society, the number which point as a center several short The Diamond Drill of Crystal Falls, of entries breaking all records of the trips were made into rural Scotland, quotes Professor Reed to the effect that "these calves showed the highest Visitors and buyers were in at- famous Shorthorn breeder, William quality and uniformity of any calf club which he has ever seen, even better than the famous Boone County Calf Club of Indiana. The sixteen heifers shown by the boys made a very favor-

CALF CLUB HOLDS CONTEST.

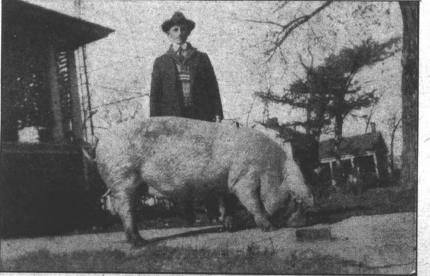
that English farmers and breeders competitive judging contest on Sepest average received a loving-cup presented by the Iron River Stambaugh

MY SEWING CLUB STORY.

HAVE made three garments in my first year of sewing and I think I Reporter, while the boys making the have done quite well; I love sewing

The old saying is that you can lead pean and American makes. The ex- Show at Chicago. The contest took a horse to water but you can't make hibit of live stock feeds was another place in the presence fo Prof. O. E. him drink. That's just the way with interesting subject for study, since, Reed, head of the dairy department of me, you can lead me to the sewing most all the rest carbon. They get

able impression.—CHASE.



Jay Saymour and His Minnesota Champion Sow which Took Him Ten Minutes a Day to Raise.

My first garment was a sewing bag and apron combination, then my next garment was a bungalow apron. First I made my pattern and then I laid my pattern on the material to cut my apron out, then I basted it up the sides and the hem also. I made the pattern an inch longer for shrinkage and three inches for hem. I basted up the neck and sleeves and then I started my stitching. First I made French seams up the sides and then I made my hem and there I found some fun. I had to rip the hem out and make it all over

The third garment I made was a nightgown. I took the pattern I had for my apron and cut my nightgown out by it, but, of course, I made it longer. I made it just like I did my apron only I didn't have ric-rack on the neck and sleeves and I didn't have a belt on it either.

I love the sewing class and sincerely



Marion Wiggins at the Right.

hope we have a class next year. Miss Dorothy Winters was our local leader. MARION WIGGINS, Wolverine 4 Aitch Sewing Club, Cheboygan County.

THEY SAVE US FROM POISON.

E VERYONE learns that animals live through breathing in from the air pure oxygen and breathing out poisonous carbon dioxide. But how many ever stop to think where the poison goes after it is breathed out and where our fresh supply of oxygen comes

the carbon from the air, breathing it in through multitudes of tiny mouths. In one square inch of a lilac leaf there are 160,000 mouths. These arifices take into the leaves of the world the one million carloads of carbon dioxide that are passed daily into the atmosphere. The leaves break up the carbon dioxide into its original elements, caroxygen. They retain the carbon and give us back pure oxygen in return. Thus they maintain a natural equilibrium; we owe our very existence to the trees and plants.

Without the microscope we should never have known about the mouths of the leaves and what an all-important part they play in our lives .- American Boy.

Says Sam: "Farming's uncertain, but I'd just as soon be subject to the whims of Nature as of Human Nature. The weather can ruin your crops, maybe, but it won't fire you just because it has a headache.

Rebuilding the World

Our Weekly Sermon-By N. A. McCune

It is worth reading. Certain portions he would be much disturbed by some of Scripture are studied, and the things in our national life. On the truths which they teach are applied to other hand, America has an immense modern times. If this were as easy amount of moral vigor. The work of to do in reality as it is on paper, how the Puritan and the simple pioneer swiftly would the world be overhauled and the lover of freedom has not been and rebuilt! What a modern and news- in vain. An appeal to the Christian papery sound it has to speak of Moses sentiment of America is sure to have as the "Labor Leader who Freed the a response. A certain eastern univer-Slaves." And that in effect was what sity professor has said, "The same peohe did. "The true mark of a saved ple who have impressed observers as man is not that he wants to go to sharp traders and keen politicians heaven but that he is willing to go to have surprised the world by acts of China, or to the slums of some great unprecedented magnanimity and selfcity, or to the last dollar of his re- denial. What other country ever resources, or to the limit of his energy, ceived an indemnity from a foreign in order to set forward the kingdom of government and returned it, only to God on earth." Moses came from the receive it once more in the form of ranks. While he was an educated man, stipends for the education of youths learned in the arts of the Egyptians, sent to the United States by the gratehe nevertheless knew the sufferings of ful land? When did another nation his people. It is not without reason win territory and return it to its octhat the great leaders of men have cupants, as in Cuba, or hold it in trust, come from the humble walks of life. as in the Philippines? When did ever They speak from experience, as no another nation at the end of a war like theorist can. Mr. Gladstone, four times that with Spain transport the defeated prime minister of England, a son of army to their homes across the sea? in almost every one of the great controversies, whether it affected com- ishing a weaker neighbor, like Mexico, merce or religion or the ballot, "the and meantime provide for her refugees leisure class, the titled class, and the friendly shelter and support? Or when educated class have been in the wrong." At a sitting of the Commis- possession of a strip of land and at sion on Industrial Relations, Mr. Schaffner, of the firm of Hart, Schaff- pose to satisfy its conscience by a volner & Marx, who are the largest employers of their kind of labor in the United States said, "These labor representatives are really better informed on the subjects here treated, and state is on the worth of every human being. their case better than we do."

And yet this mighty labor leader learned some facts that the modern agitator would well learn with profit. He learned that violence would not solve the problem that lay before him. He killed a man one day, in the heat of his indignation, but he never did so again. Killing folk will not lead to a better order of things. And he learned something else. He went away to the desert, and there he lived and thought. He had time to think out the question that had stirred his soul. That is more we fear, than many a soap-box orator has ever done. He presents a mass of half-baked theories and is filled with wrath because they are not promptly adopted. And there in the lonely places, Moses got a vision of God. When one gets a square look at God, he is pretty certain to have hopeful and helpful views of man. The leaders today from whom we may expect a constructive program, are they who have had an experience of religion.

in Scripture. A chapter in the book things shall never be moved." of which we have been speaking, is devoted to it. It is entitled, "The Herdsman who Preached Social Justice." A queer figure he must have been, with his herdsman's clothes and his long hair, appearing in large towns and cit- in love with Judith Jones. Harry toots ies, warning them to practice honesty a horn in the band and Morton toots and justice. He told the people that his horn out by the old horse block. for the end came. Is such preaching Morton and Harry ought to be dehornneeded now? Never more than now. There is a large class of people who agant methods of spending it, while a cut rate.

SMALL book lies before me, another large class know not where with the title, "Social Rebuild- the next month's rent is to be had. ers," by Dr. Charles R. Brown. Were Amos an American citizen today wealth, said that in the last fifty years When did ever a great Power pause with such scrupulousness before pundid any other nation, having taken enormous cost built a canal, ever prountary payment to the former owners, or to open the canal on equal terms to the fleets of the world?

The fundamental teaching of Christ The worst aspect of war, if we are to accept what Doctor Brown believes, was not the treatment of Belgium, nor any other of those fearful acts with which we became so familiar, but the utter decay of the soul of a great nation, Germany. The Germany that had produced Luther and Goethe and Beethoven and Carl Schurz had descended to such depths that it had chosen as its apostles and leaders, Nietzsche, Treitschke and Bernhardi, men who laughed at the Nazarene and glorified war. Amos was right. Such nations come to the place and the hour of humiliation. As a leading minister has suggested, would it not be a noble attitude if the nations would take as their motto that psalm that is dear to Protestant, Jew and Catholic alike-the fifteenth? "Lord, what nation shall stand in thy presence, or dwell in thy holy hill? The nation that walketh uprightly, that setteth justice first and speaketh truth in its heart? The nation that slandereth not its neighbors, nor setteth spies upon another nation, nor Probably few persons who attend cherisheth a grudge toward any peochurch ever read the book of Amos. If ple. The nation that sweareth to its they have read the Bible through, they own hurt and changeth not, in whose would, of course, have come upon this eyes a reprobate nation is despised. particular book. But otherwise it has The nation that useth not its strength no attractions for the average man. to oppress the weak or to destroy the Yet it is one of the higgest little books helpless. The nation that doeth these

SUNSHINE HOLLOW.

Morton Filkins and Harry Selby are the nation would come to an end if Morton is winning out with Judith as they continued to indulge deceit, ex- he is a careless driver and his dad tortion and oppression. He was right, owns a garage. Mr. Jones says both ed before they get any bigger.

Parson Goosen has three kids that have so much wealth they are embar- need their tonsils removed at the same assed by it, and seek the most extrav- time so the city doctor is giving him



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live arrival guaranteed. FREE feed with each order, 40 breeds chicks, 4 breeds ducklings, Select der. 40 breeds chicks, 4 breeds ducklings, Select and Exhibition grades. A hatch every week all year. Catalogue free. Stamps appreciated. NABOB HATCHERIES, Gambier, Ohio

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

he is sometimes required to purchase eggs. from his customers.

cooperative egg sales idea in Quebec by the Quebec Farmers' Experimental Union and Quebec Cheesemakers' Cooperative Association. Eggs are gathered by the local agricultural cooperative associations, which number over to the Central Cooperative, by which they are sold.

All eggs are stamped, as soon as gathered, with a stamp furnished to the members for the purpose. As each egg bears a number, it is easy to identify the producer, who is paid according to the quality of the product.

In addition to these local associations, some egg circles have been organized during the past few years in eastern townships and in the district of Shawville. Some of these circles also sell eggs through the Central Association. However, the members of these circles are not under the obligation to stamp their eggs, and it is almost impossible in this case to identify the producer. Therefore, the club receives, as a rule, only an average price for each shipment, instead of the price paid for stamped eggs.

This cooperative system for the sale of eggs in Quebec is quite simple:

1. The eggs which have been stamped by the producer, are delivered on a certain day of each week to the local secretary. Each of these eggs bears the number of the producer. If the producer lives at some distance from the local shipping office, he may ship his eggs directly to the headquarters of the Central Association.

2. All boxes of eggs received are shipped to the city by the local secretary, who receives a small compensation for his work.

3. The eggs are graded on arrival and the proceeds, less shipment charges, and a sum of two per cent, are returned at once to the local secretary, and by him distributed among the producers', according to the quality of eggs supplied by each.

In Ontario thirty-six egg circles reported in 1916, 1,416 shipments of 382,-808 dozens, representing a gross value of \$14,227.36. In 1917 forty circles reported 1,605 shipments of 542,853 dozens, representing in gross value \$209,-837.31. The present shipments for April, May and June, from 2,100 members will aggregate four hundred shipments with a gross value of \$140,000. This shows what pooling eggs has done for Ontario farmers. Their present quarterly shipments are comparing well with their earlier annual business.

During the past few years the cooperative handling of eggs has received considerable attention in Nova Scotia. Recognizing the fact that a large production of eggs was placed on the market during April, May and June, the leaders built cement tanks in various sections of the provinces in which often, even in large flocks. to store the eggs during the low-price season and to place them on the mar-

collector and manager, and charge four R. G. K. cents per dozen for handling and marketing the eggs. The balance was paid to the farmers after the eggs were sold. This method increased the spring

control over the quality of the eggs, circle to guarantee the quality of the

The idea of pooling eggs has swept A great impetus has been given the across Canada until practically every province has its well organized and well-functioned egg sales agency. Alberta farmers handled more than 250,-000 dozens of eggs under this plan last year, while Saskatchewan farmers, through the poultry plants of the Sastwo hundred in the province, and sent katchewan Cooperative Creameries, sold several carloads.

These superior marketing methods, linked with a climate in which the hen is able to do her best for man, and farms capable of producing her food at home, is responsible for putting Canada to the forefront as a contender in world-trade as far as poultry goes. We shall soon come to see the country just north of us occupy an enviable position in the egg trade because of the egg-pooling plan.

ORGANIZED FARM FLOCK IM-PROVEMENT.

FLLOW-LEGGED roosters only four months old but weighing four and a half pounds, cockerels in Missouri's certified farm flocks, hatched from the eggs of a 200-egg hen and brought up in the manner recommended by the Missouri College of Agriculture, will be distributed by the college to other flock owners of the state who are cooperating with the college to breed up high-laying flocks and increase Missouri's average annual production of eggs per hen.

"The average farm in Missouri supports ninety-four fowls which lay an nually an average of fifty-five and one half eggs per bird," comments T. S. Townsley, extension poultry specialist. "In contrast to this low average, 112 Missouri farms, where the Missouri plan of flock improvement is practiced, reported an average of 125 hens on each farm in 1920 with an annual egg production of 114 eggs a hen. If every hen in Missouri laid as well as the hens on the farms of these flock owners who are working directly with the college, the state's present annual production of one hundred and fifteen million eggs could be secured from less than half the number of hens now

WARTS AND BLOODY EGGS.

What is good for chickens that have warts on their comb, especially cockerels. What treatment can I use and we have a couple of chickens that lay bloody eggs.—F. B.

Warts may occur on the cuticle of poultry, but because of the difficulty of treatment they are not given much attention as they do not injure the utility value of hens for laying, or cockerels for breeding purposes. Howeyer, they mar the appearance of the bird and it is probably best not to breed from stock where warts appear. I do not think the trouble will prove hereditary. In fact, it does not occur

Bloody eggs are sometimes laid by hens because of slight ruptures in the ket during the winter period scarcity. oviduct. It most often occurs when This was an advantage to the consum- young pullets first start laying. Prober, and incidentally resulted in an in- ably the condition will disappear latcrease in prices for eggs produced by er. The fact that a hen is laying the farmers. At three different points proves that it is in fairly good physi-16,000 dozens of eggs are handled in cal condition. The blood on the eggs may be due to straining as in the case The circles usually select their own when double-yolked eggs are laid.-

A TEST OF INBREEDING.

Poultry inbred ten years at the Minprices from five to eleven cents per nesota Station showed no sign of didozen. The eggs were candled into minished vigor. Your own cockerels the tank, and also candled out into the may make good flock sires, provided cases for shipment, which enabled the you pick out the strong ones.



Keep their sleeping quarters, the feeding grounds, pure and healthful. Use the sprinkling can. Add four tablespoonfuls of Dr. Hess Dip and Disinfectant to each gallon of water. Sprinkle the animal body to kill the lies the sleeping quarters the lice, the sleeping quarters and feeding grounds to destroy the disease germs. Or provide a wallow, to which add about one gallon D and D to every 70 gallons of water. Disinfect the barns, the poultry house.

Also use it about the home, in the sick room, sink and cesspools, to establish better health conditions.

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Top Quality Cockerels Minorcas, Houdans, Spanish. Tyron Poultry Farm, Fenton, Mich.

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aggs. pullets, hens and males shipped C.O.D.

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.

Trapnested Pedigreed White Wyandotte cock-records of 231 to 286 mated to cockerel from a 257 egg hen. C. R. HANES, Schoolcraft, Mich.

Pullets and Breeding Stock BECKMAN. 26 E. Lyon, Grand Rapids, Mich.

Whittaker's R. I. Reds Michigan's Greatest Color and Egg strain Both Combs. Write for free catalog and our new proposi-tion in regard to good breeding cockerels. INTERLAKES FARM. Box 39, Lawrence, Mich.

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

Barred Plymouth Rock cockerels, pullets, and years ling hens. 200 egg laying strain. Price reasonable. Mrs. H. P. Schulze, Laingsburg, Mich-

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

W. Chinese Geese, Br. Leghorns.
MRS. CLAUDIA BETTS, Hillsdale, Mich.

Mammoth Pekin Ducks Fine breeding stock.

J. W. Drake Farm, R. 4. Pontiac, Michigan.

Western Mich. Fair Stock Awards

THE following awards were issued by the judges of the various classes of live stock at the recent Western Michigan Fair held at Grand Rapids. The awards for First, Champion and Grand Champion only are given.

Shorthorn Special, Nels A. Peterson, Gowen, Mich.

Polled Durhams—All firsts and grand champion bull to L. C. Kelley & Son, Plymouth, Mich., except cow three years or over, senior yearling heifer.

Sheep.

Sheep.

American Merinos.—H. M. Calhoun, Bronson, Mich., first on ram two years or over, ram lamb, flock of four, pen of four lambs, champion and grand champion rams, pen of three yearling rams. Carl Moeckel, Munith, Mich., first on ewe two years or over, ewe one year, and ewe lamb. Calhoun Bros., Bronson, first on yearling ram and champion ram under two years. George M. Wellton had champion ewe over two years and under two years, and grand years and under two years, and grand champion ewe.

Delaine.—Carl Moeckel, Munith, first ram two years or over, ewe two years or over, flock of four, champion ram over two years, champion ewe over two years, and grand champion ram. two years, and grand champion ram. H. M. Calhoun, Bronson, first and champion ram under two years, ram lamb, ewe one year, ewe lamb, pen of four lambs, grand champion ewe, pen of three yearling ewes and three yearling rams

yearling rams. Rambouillet .- H. M. Calhoun, Bron-Rambouillet.—H. M. Calhoun, Bronson, first and champion ram two years or over, first and champion ram one year, first and champion ewe one year, first and champion ewe two years, ewe lamb, flock of four, and grand champion ram. Carl Moeckel, Munith, first ram lamb, first and champion ewe one year, pen of four lambs, grand champion ewe, pen three yearling ewes. Den of three yearling rams.

grand champion ewe, pen three year-ling ewes, pen of three yearling rams. Shropshires.—H. E. Powell & Son, of Ionia, both grand championships, champion rams under two and over two years, champion ewe under two years, and all firsts excepting two years or over which went to R. J. Wil-liams of Middleville, who also took liams, of Middleville, who also took champion ewe under two years and

champion ewe under two years and pen of three yearlings.

Hampshires.—A. M. Welch & Son, grand champion ram, champion ram over two years, champion ram under two years, first ram one year, ewe lamb, flock of four. C. L. Mitchell, of Lucas, Ohio, grand champion ewe, champion ewe over two years, champion ewe under two years, ram lamb, ewe two years. ewe one year. pen of ewe two years, ewe one year, pen of

four lambs.
Lincolns.—All firsts and grand champions went to J. H. McClean, Kirwood,

Ont.
Oxfords.—Ivan Bursley, Charlotte, grand champion ewe, champion ram over two years, champion ewe two years or over, champion ewe under two years, first ram two years or over, ram lamb, ewe two years or over, ewe one year, ewe lamb, flock of four, pen of four lambs. H. E. Powell & Sons, lonia, grand champion ram, champion ram under two years, and ram one year.

Southdowns.—L. C. Kelly & Son, of Plymouth, Mich., grand champion ram, grand champion ewe, champion ram over two years, champion ewe over two years, pen of three yearling ewes, ram two years or over, ewe two years or over, ewe lamb, flock of four. C. L. Southdowns .- L. C. Kelly & Son, of or over, ewe lamb, flock of four. C. L. Mitchell, Lucas, Ohio, champion ram under two years, champion ewe under two years, pen of three yearling rams, ram one year, ram lamb, ewe one year,

ram one year, ram lamb, ewe one year, pen of four lambs.
Cotswolds.—C. L. Mitchell, Lucas, Ohio, awarded all firsts, champion and grand champion prizes.
Leicesters.—All firsts, champion and grand champion awards go to William McClean & Son, Curwood, Ont., except pen of three yearling rams to Shuttleworth Bros., Ypsilanti, Mich.
Horned Dorsets.—All awards go to L. C. Kelley & Sons, Plymouth, Mich.
Cheviots.—All first, champion and grand champion, awards to Raymond D. Grieve, Xenia, Ohio.
Tunis Sheep.—All firsts, champion.

championship and nrst awards to ...

Tunis Sheep.—All firsts, champion, rand champion awards to Ralph E. wen, Fulton, New York.

Cattle.

Cattle.

Championship and nrst awards to Z. G. Hampshires.—All grand champion, champion and first awards to Z. G. Hadley, Wilmington, Ohio.

Poland-Chinas.—All grand champion, the champion and first awards went to W. grand champion awards to Ralph E. Owen, Fulton, New York.

grand champion awards to Shuttle-worth Bros., Ypsilanti, Mich.

Shorthorns.—John Leicester & Sons, Clarkston, Mich., senior champion bull, exhibitor's herd, bull three years or over, junior yearling bull, junior bull calf, cow three years or over with calf by side. M. A. Wagner, of Freemont, Ohio, bull two years and under, senior yearling bull, heifer two years, senior yearling heifer, senior champion cow, junior champion heifer, grand cham-pion cow or heifer, breeder's herd, four animals of one sire, two animals of one cow. Bidwell Stock Farm, Tecumseh, Mich., senior bull calf, senior heifer calf, junior champion bull. American

years or over, senior yearling heifer, senior heifer calf, two animals of one cow and grand champion cow to Ben D. Kelley, Plymouth, Mich., and junior calf to Lundey Bros., of Davison, Mich.

Mich.

Herefords.—Sanden Farms, Eaton Rapids, Mich., bull three years or over, senior bull calf, junior bull calf, junior yearling heifer, senior heifer calf, junior heifer calf. Smith Bros. four get of one sire, heifer two years old. Seamed & Son, junior yearling bull, junior champion bull, junior champion heifer. Remaining first, champion and grand champion awards to J. L. Pridey, Warren, Ohio.

Aberdeen Angus—All first champion

Aberdeen Angus.-All first champion and grand champion awards to W. E. Scripps, Orion, Mich.

Galloways.—William Vines, Howell, Mich., first junior yearling bull, senior yearling heifer. Remaining first, champion and grand champion awards to James Frantz & Sons, Bluffton, Ohio.

Red Polled .- Westbrook Bros., of Ionia, first cow three years or over, heifer two years and under, senior yearling heifer, breeder's herd, senior champion cow. Remaining firsts and champions to Stump & Etlezer, Con-

voy, Ohio. Brown Swiss.—R. A. Kyser, Lowell Mich., cow five years or over, senior yearling heifer. Remaining first, champion and grand champion awards, in-cluding Brown Swiss Special, to L. S. Marshall & Son, Leslie, Mich.

Jerseys .- Arthur Edison, Grand Rapids, Mich., grand champion bull, junior champion bull, senior champion bull, junior bull calf, senior bull calf, bull one year old, senior heifer calf. S. J. Cowen, Rockford, Mich., bull two years old. old. All remaining first, champion and grand champion awards to Eardley Bros., Grand Rapids, Mich.

Holstein-Friesians.-J. L. Wilson, of Grand Rapids, Mich., grand champion bull, senior champion bull, bull three years or over. John C. Buth, Grand Rapids, Mich., grand champion cow, Rapids, Mich., grand champion cow, junior champion heifer, senior champion cow, cow five years or over, cow three to five years, heifer two years, senior heifer calf, exhibitor's herd, two animals of one cow. Loeb Farms, Charlevoix, Mich., junior champion bull, junior yearling heifer, bull two years, senior bull calf, junior bull_calf, junior heifer calf, breeder's herd, four animals of one sire. J. N. Lamoreaux,

unior neiter call, breeder's nerd, four animals of one sire. J. N. Lamoreaux, Comstock Park, bull one year.

Milking Shorthorns.—Lundy Bros., Davison, bull three years or over, senior bull calf, funior bull calf, heifer two years, junior yearling heifer, senior heifer calf, exhibitor's herd, breedfores herd, fore sire.

ior heifer calf, exhibitor's herd, breeder's herd, four animals of one sire. Neal J. Lamoreaux, Comstock Park, cow five years or over. Remaining firsts to N. A. Peterson, Gowen, Mich. Guernseys.—John Ebels, of Holland, Mich., bull three years or over, bull one year, junior yearling heifer, breeder's herd, grand champion bull, senior champion bull. Albert A. Holmes, of Grand Rapids, Mich., bull two years old, two animals of one cow. Wm. E. Scripps, Orion, Mich., senior bull calf. Scripps, Orion, Mich., senior bull calf, junior bull calf, four animals of one sire, junior champion bull. F. W. Wallin, Jenison, cow five years or over, senior heifer calf, grand champion cow, an heifer calf, grand champion cow. senior champion cow or heifer. A. Morlock, Watervliet, Mich., cow three years and under five. W. A. Whittier, Grand Rapids, Mich., junior heifer calf, exhibitor's herd, heifer two years old, senior yearling heifer, junior champion

Swine.

Berkshires.—All grand champion, championship and first awards to F. E.

Poland-Chinas.—All grand champion, champion and first awards went to W. B. Ramsdell, Hanover, Mich., except as follows: Charles Wetzell & Sons, Ithaca, Mich., boar eighteen to twenty-four months, sow two years or over, four animals produce of one sow, senior champion sow and grand champion sow. John C. Cutler & Son, Caledonia, Mich., sow under six months.

Duroc Jerseys.—V. Davis, of Ashley Mich., boar eighteen to twenty-four months, boar under six months, sow two years or over, sow eighteen to

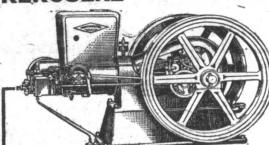
two years or over, sow eighteen to twenty-four months, exhibitor's herd, senior champion sow and grand cham-pion sow. All remaining firsts, cham-

(Continued on page 393).

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Reg. Aberdeen Angus bulls and heifers of the very best of breeding, from 12 to 15 months of age. For next 30 days will price bulls at \$100.00. Real bargains. Inspection invited RUSSELL BROS., Merrill, Mich.

Registered Guernsey Bulls for sale 2 sired by deale's Choice. All one yr. old-ready for service. I born July 25th 1971, sired by Avondale's Choice. All besutfully marked fawn and white. Address Dr. W. R. Baker 4500 Fort St., West, Phone West 629, Detroit, Mich.

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

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Bull calf and yearling bull for sale. F. W. WALLIN, Jenison, Mich

Registered Guernseys - \$100 buys the last bull we have, old enough for light service—it will pay you to find out more about this fellow. No reactors—no abortion—a clean herd.

J. M. WILLIAMS, No. Adams, Mich.

GUERNSEYS -REGISTERED BULL OALVES Containing blood of world champions.
HICKS' QUERNSEY FARM, Saginaw, W.S. Mich.

4 Guernsey bulls 10 to 15 mos. old. Accredited herd no. 9407. Ist prize yearling and eaff at Jackson, Grandsons of 3rd A. c. dras leader, Carrie of Hillhurst, 314 lbs. b. f., out of A.R. dams, Priced to sell. G. W. and H. G. RAY, Albion, Mich.

Guernsey Females of superior breeding, at reduced prices. Tuberculin tested. Send for sale list to day. G. A. Wigent, Watervliet, Mich.

Guernseys, WANTED prices on young registered cows and heifers, must be healthy.
GEORGE D. SPRINGER, R. 6, Grand Rapids, Mich

For Sale Register Guernsey bull calves out of A. R. dam. \$40.00 each if taken soon.
JOHN EBELS, R. 2, Holland, Mich

For Sale cheap, young Guernsey bull ready for light service, federal tested, sired by our grand champion bull from the W.W. Marsh herd of Waterloo, ia. A. HATT & SON, Napoleon, Mich.

WinnWood

Registered Holstein-Friesian Cattle

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

John H. Winn, [Inc.] Rochester, Mich.

CATTLE

Cluny Stock Farm

Offers the 10 mos. old bull. Cluny Maplecrest Colantha Siver No. 326204, Born Mar. 22, 1920

No. 326204, Born Mar. 22, 1920

Sire—Maplecrest Application Pontiac
Sire's dam, 35 lb. butter 7 days, 1344 lbs. butter,
23421, 2 lbs. milk in year. Maplecrest's 24 A. R. O.
daughters average 20.2 lbs. butter, average 420 3
lbs. milk at 2 y, 11 m. 8 s.o. daughters average
14136 8 lbs. milk and 630.44 lbs. butter at 2 y, 7 m.
6 of these 10 months records.
Dam—a 22 lb. Jr. 4 yr. old granddaughter of
Colantha Johanna Lad.
Dam's Dam—milked over 145,000 lbs. in 14
milking periods.
He means increased production for the herd he
heads.
Price \$150.00

D. D. MADHEDSON: Hewell Mail.

R. B. McPHERSON, Howell, Mich.

Four 32 lb. Yearling Bulls
Sired by SEGIS KORNDYKE DE NIJLANDER, a 32
lb. son of a twice Michigan State Ribbon winner; her
dam 294 lbs. One those calves from a 30 lb. dam, one
a 284 lb. dam, one a 19 lb. 3 yr, old with only % 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 reg-of the best, and at prices within reach of all. Write, GEO. D. CLARKE.

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 Special Bargains in Young Bulls

No. 1 Segis Moonlight Pietertje King, No. 307706, born Feb. 12, 1820, His sire's two nearest dams average 36.52 lbs. His dam is a 22.58 lb. 3½ yr. old daughter of a cow that produced 104 lbs. milk in a day and 624 lbs. milk in 7 days. She sold at auction for \$1,300.00. Price \$150.00 f. o. b. Howell.

No. 2 Village Moonlight Colantha Sir Aaggie, No. 333126, born Sept. 26, 1920. His sire is the sire of bull No. 1, His six nearest, dams average 28.01 lbs.. Price \$125.00 f. o. b. Howell.

No. 3 King Vale Nijlander. No. 533123, born Sept. 19, 1920. Pis sire is the sire of bull No. 1. His five nearest dams average 27.72 lbs. Price \$100.00 f. o. b. Howell.

McPherson Farms Co., Howell, Mich. All herds under U.S. Supervision.

Reg. Holstein Friesian bulls sired by a gdson of King of the Pontiac's, ages from six months to one year old, nicely marked and good individuals priced to move them to make room for winter caives. Herd under Federal and State supervision, haven't had a reactor in the herd. Henry S. Rohlfs, R. J. Akron, Mich,

Reg. Holsteir Bulls ready for service sired by a 42 lb, bull. Priced to sell, also a few heifers and calves.

B. B. REAVY. Akron, Mich.

Holstein-Friesian pure-bred bull calves, also good herd. Prices are right. Larro Research Farm, Dept. A, North End, Detroit, 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.

Bull Bargain, \$100 gets a light colored bull ready for service born Apr. 11, 1920, from 21.51 lb. dam, and sire whose six nearest dams av. 33.34 lbs. butter 7 days. Herd under state and Federal supervision. Oscar Wallin, Wiscogin;Farm, Unionville, Mich.

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 Korn-dyke. 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

Herefords

Repeaters, Beau Donalds, Fairfaxes, and Farmers represented in our herd. Repeater 173rd, a son of old Repeater, at head of herd. Both sexes and all agree for sole.

ALLEN BROS.,

(Farm at Paw Paw, Mich.)
Office 616 So. West St., Kalamazoo, Mich. Lakewood Herefords

For quick action, will make attractive prices on two big boned, husky bull calves, 10 and 11 months o'd, registered. E. J. TAYLOR, Fremont, Mich.

Jersey Thoroughbreds Few cows and bull calves. Best breeding line. Guaranteed: Tuberculin tested twice a year. If you have no money will take bankable note. E. W. Vasvary, 411 Free Press Building, Detroit, Mich., Main 1267.

BUTTER BRED JERSEY BULLS
FOR SALE
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. Bulis 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 bulls ready for service. Raleigh, Majesty, Oxford Lad breeding. WATERMAN & WATERMAN. Ann Arbor, 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.

Central Mich. Sale Circuit Wednesday, October 26th

Hart, Fulcher and Cline sell 40 head at the feed barn at St. Louis, Mich. sired by Harts Black Price, Right Kind Clan, Mich. Yank, Cline's Bob, and Leonards Big Bob. A June gilt sired by CHECKERS. For catalogue write F. T. Hart, St. Louis, Mich.

Thursday, October 27th

E. R. Leonard, sells 50 head sired mostly by Orange Clansman, Grand Champion at Bay City Fair 1921, 1st at West Mich. State Fair and 2nd at Detroit. Many of these gilts sell with breeding privilege to LEONARDS LIBERATOR the tallest, longest and heaviest boned pig in Mich. Write for Catalogue, Sale at farm. Cholera Immuned.

Friday, October 28th

Pope Bros. Mt. Pleasant sell 50 head at Francisco Farm, sired by MICH. MASTON, MICH. CLANSMAN, Orange Clansman, Hill Den Clan and out of dams by Moors Great Giant, Gersdale Timm, Black Jumbo Lad, Harrisons Gersdale, Hill Den Clan, Smooth Half Ton, Mich. Mastodon, Harts Black Price and Leonards Giant. For catalogue write P. P. Pope.

NOTICE
Chas. Wetzel and Sons will not hold their sale in this circuit as before advertised.

Wm. Waffle, Auctioneer

50 HEAD

HILLCREST FARM WILL SELL **Big Type Poland Chinas** Tuesday, Nov. 1, 1921

at the farm, two miles south-west of Hopkins, Mich. and eight miles north-east of Allegan, Mich.

THE OFFERING CONSISTS of tried sows, fall yearlings, 35 spring gilts and a few choice boars that will make extra large herd sires.

AS A SPECIAL ATTRACTION we are listing for sale the great sow OLD FAS-HION, by Hillcrest Bob, by Big Bob (one of the greatest progenitors of the big-type breed); dam by Grand Master (the first boar shown actually weighing over 1100 lbs. and the grand-sire of a \$50,000 boar and \$17,200 sow).

WE WILL ALSO SELL a few choice fall yearlings by BIG SMOOTH JONES, out of dams by MASTODON WONDER (sire of the 1917 grand champion).

TO ACCOMMODATE THOSE COMING by train or interurban, free auto service will be provided.

PUT DOWN THE DATE and be sure to be at the sale. Write Hillcrest Farm, Kalamazoo, Mich. for free catalog.

F. B. LAY, Kalamazoo, Mich. DEN BLEYKER BROTHERS, Allegan, Mich.

SHORTHORNS **BUY A BULL**

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

BIDWELL STOCK FARM, Tecumseh, Michigan

We offer a few choice Scotch helfers 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

Kirk Levington Lad, by imported Hartforth Welfare, in service. Bulls and heifers for sale. Gobleville, Mich. J. V. Wise,

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

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

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

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

Shorthorn Bulls and helfers for sale of the milking strain CHARLES BRAY, Okemos, Michigan

For Sale Scotch and Scotch Topped males and dress Northwestern Michigan Shorthorn Breeders' Ass'n. Roy F.Zimmerman, Sec'y. Traverse City, Mich.

Reg Red Polled Cattle, our herd headed by Famous of Charmer, Grand Champion Michigan State Fair, Under State and Federal supervision, no cattle for sale at present. Westbrook Bros., Ionia, Mich.

For Sale Registered Berkshire boar pigs 6 mo old. Double immuned for hog cholera L. D. KELLICUT, R. I. Litchfield. Mich

EVERY'S BERKSHIRES. Winners at International Choice large type spring pigs, either sex. Satisfac-tion guaranteed. W. H. Every, Manchester, 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.

DHODT & BERNS, Monroe, 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, H. W. Mumford, Owner J. B. Andrews, Mgr.

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



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

Duroc Jersey Swine

Breeding stock for sale at all times at reasonable prices. If in need of a high class boar, or sow any age write, or better, come to farm Best of Blood line and we guarantee you satisfaction. Herd boars, Panama Special 11th and Home Farm Wonder. Booking order for fall pigs at \$15 each.

Thos. Underhill & Son, Salem, Mich.

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

PEACH HILL FARM

Peach Hill Orion King 152489

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

DUROC JERSEYS

Berkshire spring pigs, either sex, \$10, \$12 and \$15 deep to the spring boars that will improve your hoss, of Orion Cherry King, Col. and Pathfinder breeding, at reaching to age. Also fall gilts and yearling sows. sonable prices. Write us your wants. Bred sows and CHASE STOCK FARM. Marlette, Mich. gilts all sold. W. C. TAYLOR, Milan, Mich.

CONDUCTED BY DR. W. C. FAIR.

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

Warts on Teats—Pup Vomits.—I have a cow whose teats have broken out with warts which are growing rapidly, making it difficult to milk her, and I would like to know what to do for her. I bought a collie pup recently; when he runs is inclined to vomit! Does not seem to be sick. Has good appetite, is hearty and growing fine. L. D. S., Dexter, Mich.—Clip off those which have neck; after each milking apply castor or olive oil. Pay no attention to your pup; nature fixed the dog so that it is no effort for him to vomit; this is what often saves his life. A change of feed will benefit him.

Umbilical Hernia.—I have a yearling

Umbilical Hernia.—I have a yearling Umbilical Hernia.—I have a yearling filly that has navel rupture. Our veterinarian operated on her last fall and took off the bunch, but another bunch has returned; however, it is smaller, only the size of a tea cup. A clamp was applied, this remained on for a few days then dropped off. What can be done for her? V. L., Lapeer, Mich.—The only remedy is another surgical operation and, of course, your veterinarian will know how.

Supposed Heave Remedy for Horses.

50

Supposed Heave Remedy for Horses.

One of our subscribers very kindly Supposed Heave Remedy for Horses.—One of our subscribers very kindly informs us that an old horse trader confidentially told him that indigo blue was a reliable remedy for heaves, that he had given it a fair trial, to his satisfaction. Some indigo blue is dissolved in water, a portion is mixed with each feed, also some given in drinking water. He believes that this remedy gives prompt results. Editor's Note.—Indigo is a kind of deep blue, one of the seven prismatic colors, a blue dye-stuff derived from various species of Indigofera. Indigo is never prescribed in either human or in veterinary medicine, for it possesses no medicinal action, but is occasionally used to color ointments or powders, and it is not desirable for this purpose. Chronic heaves, especially the symptoms, are somewhat modified by stinting the animal's food and water supply, adding indigo water to the food and water will perhaps cause him to eat and drink less, therefore, in this manner he might be made a little more comfortable, but surely indigo must not be considered by our readers as a remedy for heaves, or any other ailment.

Udder Hemorrhage.—I have a cow

ment.

Udder Hemorrhage.—I have a cow about seven years old; she came fresh on May 1, she has not been in heat since, but what interests me most is, that she has been giving bloody milk for the past two months. The milk comes from two quarters, most blood with first and last milk drawn. Had her tuberculin-tested and she failed to react. What can be done for-her? D. H., Levering, Mich.—Give her one dram of ground nux vomica and one-half ounce of powdered licorice at dose in feed two or three times a day. Milk her with care, bed her well, the open blood vessel must be allowed to heal.

Lameness.—My mare is lame in one

Lameness.-My mare is lame in one Lameness.—My mare is lame in one hind leg. When standing she holds up leg, acting as if in pain. When leg is pulled back she flinches, but when pulled forward she fails to flinch. W. S. H., Cassopolis, Mich.—Apply equal parts of turpentine, aqua ammonia and raw linseed oil to stifle or any other sore part once a day. By close observation you will perhaps be able to locate her lameness, which is the right thing to do before commencing treatment. ment.

Bots.—What is good for killing bots in colts? Z. A., Wilson, Mich.—One treatment which has been found effectreatment which has been found effective consists in feeding lightly on the day preceding treatment, giving one ounce of aloes, or a pint of raw linseed oil. The next day give three drams of carbon bisulphid in a gelatin capsule at six o'clock, repeat the dose at seven o'clock, and another dose at eight o'clock; this is plenty for an adult horse; one-half of this quantity is plenty for a yearling colt. How do you know that your colts are troubled with bots? I doubt it.

Worms.—Our horses are fed grein

Worms.-Our horses are fed grain, Worms.—Our horses are led grain, good hay, also run in good pasture, but nearly all of them are thin. We believe they have worms. A. B., Bloom ingdale, Mich.—Give one-half dram of santonin and one-half ounce of ground gentian in bran mash every evening gentian in bran mash every evening for one week. Perhaps you should in-crease their grain ration.

The National Dairy Show

(Continued from page 374).

More than a thousand cattle of the five principal dairy breeds were on view in one of America's finest exposition structures. The show occupied five times as much space as the first one held in 1906, and twenty-eight per cent more than last year's show in Chicago. Dairy herds from nineteen states and one Canadian province were assembled for the supreme battle of the year.

This year, for the second time, the opportunity to show was extended to the small breeder, even to the man with but one good cow. State herds made up of ten cows, each selected by the state breeders' associations, extended entry lists to many men who otherwise would never have competed. Eleven state herds in all were entered, six Guernseys and five Jerseys. The province of Ontario showed a herd of Jerseys.

Strong Holstein Competition.

The northwest is a stronghold of the Holstein-Friesians and the competition in this breed proved unusually interesting.

The three-year-old bull class brought out the best individuals of the breed shown. Tritomia Pietertje Ormsby 237603, the Waterloo Dairy Cattle Congress grand champion, belonging to P. P. Stewart and Henderson and Erickson of Randall, Iowa, was finally placed first over Walcowis Ollie Hijlaard 240663, the Wisconsin State Fair champion, and for the grand championship honors, over the junior champion, King Pontia Parthenia Champion 316801, owned by Fred Wieffenbach of North Lake, Wisconsin.

In the final female classes, grand championship honors fell to the lot of Hulda Segis Koroba, owned by Aitken Brothers, Waukesha, Wisconsin. She is a seven-year-old cow of great size, of great depth and width, combining with it quality in hide and hair, good veining and balance of udder and ideal placement of teats.

Excellence in Guernseys.

In general excellence the 268 Guernseys competing were the equal of the Holsteins. Ladysmith's Cherub 30760, running true to form, again carried off first in the aged bull classes. For three years past he has been adjudged National Grand Champion, but was this year defeated for both senior and

year defeated for both senior and grand championship honors by his son, Cherub's Pearly Royal of Shorewood, a young bull of great quality and style and a very smooth individual. Ma Cherie Procris 55855, also from the herd of D. D. Tenny, Crystal Bay, Minnesota, was selected grand champion awards to W. S. Adams, Litchfield.

Tamworths.—All first, champion and grand champion awards to W. S. Adams, Litchfield.

Tamworths.—All first, champion and grand champion awards to W. S. Adams, Litchfield.

Tamworths.—All first, champion and grand champion awards to W. S. Adams, Litchfield, Mich.

Large Yorkshires.—Ravendale Farm, Yellow Springs, Ohio, took all champion and grand champion awards and all first excepting boar eighteen to twenty-four months, boar twelve to eighteen months, boar under six months, which went to Newton Barnhart, St. Johns, Mich.

O. I. C.'s.—All grand champion, champion and first awards went to Lee's Summit, Mo., was easily the outstanding individual among the three-year-olds. He is a bull of very good size, good style, good top and bottom When Jersey placings were finally made on Friday, the crowds filled the aisles and arena so closely that they hindered Judge H. H. Kildee in his work. Interest ran high, especially in the bull placings. Fashionable Fern Lad, exhibited by Longview Farm, Lee's Summit, Mo., was easily the outstanding individual among the three-year-olds. He is a bull of very good size, good style, good top and bottom line and with evenness throughout, especially over the back and rump. Judge pecially over the back and rump. Judge went to Ger Kildee awarded him the senior and Alto, Mich. grand champion honors.

Michigan Breeder Takes Brown Swiss Honors.

Unusual progress was noted in this year's Brown Swiss show with representatives from all parts of the country. It was the largest Brown Swiss show ever held. The grand championshow ever held. The grand champion-ship went to the young sire Nellie's Stasis 6721, a sturdy, clean-cut repre-sentative with good dairy form, the property of L. S. Marshall & Sons, of Leslie, Michigan. Similar honors for the females went to Swiss Valley Girl VII, the property of Hull Brothers, of Painesville, Ohio.

thirteenth place in the contest. But to Imp Duchrae Grandee, owned by in the individual contests William Pet-ers got fifth place.

Here there a thousand cattle of the bord. herd.

Dairy Products Displays. Dairy Products Displays.

The displays of dairy products were unprecedented, totaling 1,020 entries in butter and cheese as against 600 for last year. Gust Knudson, of Armstrong, Minn., was awarded the gold medal prize for the best hand-separator butter, with a score of 97. And A. C. F. Witt, of Granton, Wis., carried away the gold medal for the best American Cheddar cheese with a score of 95%. Swiss cheese first went to of 95½. Swiss cheese first went to Ed. F. Sterner, of Baltic, Ohio.

Much Equipment Shown. Machinery and dairy equipment of endless design for increasing the efficiency of the dairy and creamery and the efficiency of the man in the dairy industry occupied the entire floor of the exposition building and overran the huge balcony. It represented the greatest inventive genius for new processes and for supplying better machinery to be found in America. If any ery to be found in America. If any known device of value was not represented it was not missed. More than a dozen different makes of milking machines were exhibited, as well as ther mos bottles and refrigerator cars, de-livery trucks, freezers, evaporators, pastuerizers, milk-drying machines, emulsifiers, refrigerators, engines, emulsifiers, refrigerators, engines, feeds, feed cutters, barns, silos, barn equipment, cans, bottles, sterilizers, cleaning agents, capping machines and many others were all shown galore, with nickel-plate, copper and glass. It was a veritable pageant of dairy progress.

Educational Display.

Twenty-five remarkable government exhibits occupying over 360 linear feet of balcony space taught their lessons in interesting and pleasing style. More than fifty lessons presented in effective graphic style sound reasons and methods for increasing the average return per head by cow-testing, by the use of better sires and better breeding methods by increasing the style of th methods, by improved cost methods and improved methods of distribution of milk, and by controlling and sup-pressing diseases which affect cattle. Other booths portrayed the best in business and marketing of dairy products and the market inspection service of-fered by the department of agricul-ture. A monster display by the Wis-consin State University illustrated in graphic fashion "fifty years of dairy development" in that state. During the week thirty-three conven-tions and dairyments getterings were

tions and dairymen's gatherings were held. The time and place of the 1922 Dairy Show will be determined by its board of directors at its January meeting. Detroit has made a bid for it.

LIVE STOCK AWARDS AT GRAND RAPIDS FAIR.

(Continued from page 391).

herd, boar six to twelve months, four animals of one sow, junior champion went to George M. Welton & Son, of

Horses.

Percherons.—Lonzo McClain, Lima, Ohio, receives all first and championship awards except Michigan mare three years or over by Miller of Cale-

Belgians.-Loeb Farms Charlevoix first Michigan stallion three years or over, stallion two years and under, mare three years and under, Michigan mare three years and under, michigan mare three years or over, mare two years and under. Mare one year and under went to Sullivan, of Coral, Mich. All other awards to L. McClain, Lima, Ohio.

Clydesdales.—All awards to George Ayrshire Champions.

Ackerman & Sons, Elkton, Mich.

Shires.—All awards to George Ackerman & Sons, Elkton, Mich.

SECOND ANNUAL SALE Big Type Poland Chinas

40-HEAD-40

Tried Sows, Fall Yearlings, Spring Boars and Gilts November 3rd, 1:30 P. M. at Elsie

Farm Five Miles West of Town

These animals are from such noted boars as Gertsdale Timm, 323765, by Gertsdale Jones Noble Ruler, by The President, Brewbaker's Giant 438253, by K's Big Jones' litter mate to Grant's Great Giant, Peter the Great, Columbia Giant, D's Big Jones and Nobleman—said to be the greatest litter ever farrowed.

Here is a real chance to put some "Giantess" blood in your herd. It is the greatest strain of Poland China swine yet developed. In this offering are great prospects in boars and gilts.

They are from dams weighing up to 900 pounds and sired from such outstanding boars as Big Type King, Gertsdale King, Gertsdale Timm, Gladiator, the great Linc Luken's boar, Black Big Wonder, Clansman, Monroe's Jumbo and others. All Stock Double Immuned

Send Mail Bids To Auctioneer In Our Care.

W. Brewbaker & Sons,

Elsie, Mich.

Auctioneers: Carry A. Eckhardt, Dallas City, Ill. Howard Rideniour, St. Johns, Mich.

THIRD ANNUAL SALE **BIG TYPE POLAND CHINAS** WED. NOV. 2, 1921

This sale will be held at the farm 82 miles due N. of Lake Odessa, and 82 miles southwest of Ionia. We will meet all trains at Ionia and Lake Odessa, forenoon of sale.

We are consigning a better offering than we have ever before run through the

sale ring. George Aldrich, Ionia, Mich. and L. B. Stokes, Greenville, Mich. are cooperating with us to make this offering a top one. Mr. Aldrich is consigning 10 head of "hand picked" gilts. They go with breeding privilege to his Liberator boar. Mr, L. B. Stokes is placing his great sow, Mollie Jumbo, in the sale along with Giantess Maid and Queen Wonder. Mollie Jumbo was Grand Champion last year at Grand Rapids and Giantess Maid was 2nd in class.

We have a wonderful litter by Checkers—real stuff—several daughters of The Clansman with the \$1025 Miss Columbia and Gerstdale Jessie their respective dams; also a great fall yearling Clansman boar out of Miss Columbia. We will run the best spring boars and gilts in the ring ever on the farm. He have a wonderful boar in their sire, Emancipator 2nd. We will be on exhibition sale day.

WESLEY HILE, IONIA, MICH.

for catalog

-47 HEAD-

Auctioneers: Harry Eckhardt, Dallas City. III. E. E. Slye, Ionia, Mich. N. C. Thomas, Caledonia, Mich.

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.

Farewell Lake Farm

Breeders of the Real Large Type

Poland Chinas Hogs

W. B. RAMSDELL,

R. F. D., Hanover, Mich.

Sale Wed. Nov. 9

Write for Catalog and Watch for Latter Ads.

(Wm. H. Lind holds sale at Alto, October 21st.)

(Loughlin, Sherk and Adams hold sale at Caledonia, October 22nd)

HOGS

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

We have a fine lot of fall pigs sired by Harts Black Price and Right Kind Clan. HART, FULCHER and CLINE, address F. T. Hart, St.

DUROC BOARS at \$20 to \$40, these by Michigan Orion Sensation, Michigan Demonstrator, Pathfinder Prince and Big Bone Giant Sensation, Inspection invited. Satisfaction guaranteed. Michigans Farm, Pavillon, Mich., Kalamazoo Co.

DUFOE Have some choice spring boars stred by Great King Orion Col. No. 18905, double immune, priced reasonable. HARRY FOWLER, Sturgis, Mich.

DUROC JERSEYS

Bred gilts all sold. Choice spring boars by Brook water Demonstrator, RUSH BROS., Oakwood Farm, Romeo, Mich.

Pure-Bred Duroc Jersey Hogs: we usually ages for sale. Reasonable prices. Larro Research Farm, Box A, North End, Detroit, Mich.

FOR SALE: Six high bred regis-tored Duroc-Jersey boars weigh about 200 lbs. Write J. M. Frost, Supt. Industrial School for Boys, Lansing, Mich.

Duroc Jerseys Best of breeding, good size and type, weanling pigs to breeding age. Priced to sell.

A. W. HOWE, Mason, Mich.

For Sale; Duroc Jersey Boar 1 year old, 3d West Mich-igan. Price \$60. Also several good spring boars and glits after prize winning stock, at reasonable prices. Frey Bros., R.1, Caledonia, Mich.

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

First Annual Chester White Sale. Tuesday, oct. 25, 1921. Consisting of 12 spring boars, 1 tried sow, and 12 spring sows of Petroleum Giant and Wildwood Prince Jr. blood lines. FLOYD H. BANISTER, Springport, Mich.

Chester Whites quality March boars and fall pigs at a very low prices, satisfaction guaranteed.

Y. W. Alexander, Vassar, Mich.



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 are
resented by these fine early developers—ready for market at are
months old. Write for my plan—"More Money from Hegs."

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

O. I. C. and Chester White Swine. Strictly 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, B. 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.

O. I. C's, one yearling boar and last spring pigs, either sex not akin. Big growthy stock, & mile west of Depot. Citze Phone, OTTO B. SCHULZE, Nashville, Mich.

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

Additional Stock Ads. on Page 380 and 395



GRAIN QUOTATIONS

Tuesday, October 18.

Wheat.

Detroit.—Cash No. 2 red \$1.22; No. 2 mixed and No. 2 white \$1.19.

Chicago.—No. 1 hard \$1.10½; No. 3 hard \$1.07; December \$1.05½.

Toledo.—Cash No. 2 red \$1.19; December \$1.20½

cember \$1.201/2.

Corn.
Detroit.—Cash No. 2 yellow 50c; No. 3 yellow 49c; No. 4, 46c. Chicago.—No. 2 mixed -44% @45% c No. 2 yellow 45@45% c.

Oats. Detroit.—Cash No. 2 white 38c; No. 3 white 35c; No. 4, 30@32c.
Chicago.—No. 2 white 32¼@33½c;
No. 3 white 29½@31½c.
Beans.

Detroit.—Immediate and prompt shipment \$4.50 per cwt.
Chicago.—Choice to fancy handpicked Michigan beans \$4.92½@5.25; red kidney beans \$9.
New York.—The market is steady Choice pea at \$8.50@8.75; do medium

5.25; kidney \$9.

Page.
Detroit.—Cash No. 2, 90c.
Chicago.—No. 2, 86c.
Toledo.—Cash 87c.

Seeds. Detroit.—Prime red clover, cash and October \$12.50; alsike \$10.75; timothy

Toledo.—Prime red clover \$12.50; alsike \$10.75; timothy \$2.75.

Hay.

Detroit.—No. 1 timothy at \$20@21; standard and light mixed at \$19@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 \$20.50@21; standard middlings \$22; fine middlings \$26; cracked corn \$26.50; coarse cornmeal \$25; chop \$20 per ton in 100-lb. sacks.

WHEAT

After its decline of four weeks' duration, the wheat market shows signs of a more or less sustained turn for the better. Receipts continue above im-immediate requirements and supplies are accumulating at terminal markets but there has been a noticeable falling off in country offerings in the last few days and demand has improved moderately. European buying has increased in spite of the weakness in continental of wheat as of October 1 reveal the result of the rapid sale of the crop. Only 418,879,000 bushels were left on farms, which means that 52.7 per cent of the total surplus left the farm compared with 36.2 per cent left war and pared with 36.3 per cent last year and 49.7 per cent two years ago. All reports from southern hemisphere countries whose wheat crop is in the process of growth are highly favorable. If present prospects are maintained, there will be no marked scarcity of wheat to supply the world's needs this year unless something unforeseen

CORN

Farmers continue to sell corn freely and with primary receipts considerably larger than consumptive demand, the corn market remains at practically the lowest point of the year. Thus far low prices have not checked the movement, the slowing down in the movement in the last few days being due to depletion of old crop supplies. Prices to producers west of the Mississippi giver for new corn corn and to corn 25 cents per bushel.

OATS

The cheapness of corn is an important factor in holding dow nthe price of oats. Other causes are the huge visible supply and the cheapness of Canadian oats which, on account of quality are much more attractive to exporters than our own.

SEEDS

The market for wheat feeds has been under considerable pressure, both from mills and holders. The cotton-seed crop is being marketed rapidly and offerings of cottonseed meal are increasing with prices to \$2 to \$3 lower than a week ago and linseed meal has lost about the same amount. Both hominy and gluten feeds have declined recently.

HAY

Eastern hay markets averaged slightly higher last week with offerings promptly taken. Western markets lost 50 cents to \$1 per ton with timothy hay arrivals showing a substantial increase. Receipts of alfalfa are rather light are rather light.

WOOL

For a number of weeks wool prices have been consistently firm and confi-dence in the future of the market is more general than at any time in a long while. Wool consumption figures by American mills make an attractive showing. During August 51,185,000 pounds of wool were used. This is at pounds of wool were used. This is at the rate of over 600,000,000 pounds a year, while our clip at the present is about 225,000,000 pounds. If this rate of manufacture continues it will make deep inroads into the carryover of wool before the next clip is ready. The American Farm Bureau reports the market value of domestic wools in state wool pools in the bright wool sections as follows: Delaine 32@35c; fine colthing 25@27c; half-blood staple the market value of domestic wools in 21c; turkeys 30c. state wool pools in the bright wool Detroit.—Eggs fresh candled 37@ sections as follows: Delaine 32@35c; 47c. Poultry, springs 23@24c; hens fine colthing 25@27c; half-blood staple 25@26c; light hens 23@24c; roosters 26@28c; half-blood clothing 25@27c; 15c; geese 18@20c; ducks 24c.

are running larger than those of last three-eighths blood staple at 24@26c; year.

FEEDS

The market for wheat feeds has been under considerable pressure both the processor of three-eighths blood combing 21@23c; quarter-blood clothing 20@22c; low-quarter 17 @19c; common and braid 15@16c.

BEANS

Michigan beans scored an advance last week, rising to \$4.65 per 100 lbs. f. o. b. Michigan shipping points for hand-picked stock. Prices to growers for beans in the dirt are about \$4.15. for beans in the dirt are about \$4.15. Demand has been good with the coming of cool weather and farmers are not selling freely so that receipts are light. All beans available for shipment during October have been sold. Red kidney beans are quoted at \$8.06. Sper 100 pounds but the New York market is considerably lower and it is expected that Michigan prices will decline until they are in line. cline until they are in line.

POULTRY AND EGGS

The preliminary report on cold storage holdings of eggs as of October 1 shows 6,300,000 cases. On the same date last year, holdings were 5,295,000 cases and the five-year average for the same date is 5,646,000 cases. The market for the same date is 2,646,000 cases. ket for fresh eggs continues strong with refrigerator eggs, even though they are of fine quality, selling at a big discount.

Latest quotations were as follows: Chicago.—Eggs, fresh firsts 42@44c; ordinary firsts 39@40c a dozen. Poultry, springs 20c; hens, general run 25c; roosters 14c; ducks 26c; geese

Live Stock Market Service

Wednesday, October 19.

DETROIT

Cattle.

- Outeron		
Receipts 175. Market ste	ady to	250
higher.		
Best heavy steers\$	6.50@	6.75
Best handy wt bu steers	6.50@	7:00
Mixed steers and heifers	5.25@	6.00
Handy light butchers	4.50@	5.25
Light butchers	4.00@	
Best cows	4.50@	
Butcher cows	3.00@	
Common cows	2.50@	
Canners	2.00@	
Best light weight bulls	4.50@	4.75
Bologna bulls	4.00@	
Stock bulls	3.00@	
Feeders	5.00@	
Stockers	4.00@	
Milkers and springers\$	40@	75
miners and springers	1000	
Veal Calves.		*
Receints 421 Market slo	707	

Best\$11.50@12.00 Others4.00@10.75

Hogs. Receipts 1,240. Market 25c lower Mixed hogs\$ 8.25 8.504 6.50@ 6.75 Heavies

Sheep and Lambs.

Receipts 2,022. Market dull.	
Best lambs\$ 7.75@	8.00
Fair lambs 6.75@	
Fair to good sheep 4.00@	5.25
Culls and common 1.00@	1.50
Light to common 4.00@	5.50

CHICAGO

Hogs.

Estimated receipts today are 16,000; holdover 12,520. Market 10@25c lower. Bulk of sales \$7.40@8.20; tops at \$8.35; heavy 250 lbs up good and choice \$7.50@8; medium 200 to 250 lbs medium, good and choice \$7.50@8.25; light 150 to 200 lbs common, medium, good and choice \$8@8.30; light lights 130 to 150 lbs common, medium, good and choice \$7.85@8.25; heavy packing sows 250 lbs up smooth \$7.75@8.15; packing sows 200 lbs up rough \$6.50@7.25; pigs 130 lbs down medium, good and choice \$6@6.75; stock pigs 130 lbs down common, medium, good and Estimated receipts today are 16,000; The heavy movement of clover and timothy seed continues. Receipts of red clover at Toledo for the season to date total 8,610 bags compared with 876 a year ago, while timothy shows 5,791 bags compared with 2,987 a year ago. On the other hand, shipments from Toledo

Cattle.

Estimated receipts today are 14,000. Market 25@30c lower; calves are dull. Beef steers medium and heavy weight 1100 lbs up choice and prime \$9@ 11.75; do medium and good \$6.15@10; do common \$5@6.15; light weight 1100 lbs down good and choice \$9.25@11.25; do common and medium \$4.75@9.25; butcher cattle heifers, common, medium, good and choice \$3.75@9.50; cows um, good and choice \$3.75@9.50; cows common, medium, good and choice at \$3.50@6.50; bulls bologna and beef at \$3.25@6.50; canners and cutters cows and heifers at \$2.50@3.50; do canner steers \$3@3.75; veal calves light and hand, weight medium, good and choice \$8@11.75; feeder steers common, medium, good and choice \$4.85@7; stocker steers common, medium, good and choice \$4.06.85; stocker cows and heifer the steers common and the steers co choice \$4@6.85; stocker cows and heifers common, medium, good and choice

Sheep and Lambs.

Estimated receipts today are 15,000. Market is weak and 25c lower. Lambs Market is weak and 25c lower. Lambs 84 lbs down medium, good, choice and prime \$7.25@8.60; do culls and common at \$5@7; spring lambs medium, good, choice and prime \$5@7; ewes medium, good and choice \$3@5.

BUFFALO

Cattle.

Receipts five cars. Slow; prime steers \$9.25@9.35; good to choice shipping steers \$8.50@9; light native yearlings good quality \$9.50@10.50; best handy steers \$7.50@8.25; fair to good \$6.50@7; handy steers and heifers at \$6.50@7; handy steers and heifers at \$6.25@7; western heifers at \$6.@6.75; light Michigan butchering heifers at \$5.50@6; best fat cows \$5.00.50; medium to fair \$3.50@4; cutters \$2.50@3; canners \$1.50@2; light fancy bulls \$5.50.06; best heavy bulls \$5.00.50; common bulls \$4.04.50; best feeders 700 to 800 lbs \$5.05.50; medium feeders \$4.50.05; stockers good \$4.50.05; light common \$3.50.04; best milkers and springers \$80.0100; mediums at \$40.060. \$40@60.

Hogs.

Receipts 10 cars. Strong; heavy at \$8.75@9; yorkers and pigs \$9.25@9.35. Sheep and Lambs. .

Receipts 20 cars. Lower; top lambs \$8.50@8.75; yearlings \$5@6.50; wethers \$5@5.50; ewes \$4@5. Calves top

BUTTER

Prices advanced again last week, especially on fancy butter, but other grades moved more freely and cold storage holdings were drawn upon to some extent. The south also has been buying in northern markets. At the close of the week a somewhat unsettled tone were manifest as the advance. tled tone was manifest as the advance has continued for a long time and has reached a new high level for the season. Production is running higher son. Production is running higher than at this time last year. Somewhere along the line the market is likely to have a good setback and it may arrive soon. Prices for 92-score fresh butter were: Chicago 45c; New York 47½c. At Detroit fresh creamery in tubs is quoted at 36@38c.

APPLES

The apple crop report as of October 1 shows a slight gain during September but not enough to affect materially the shortage in the crop. Apple prices last week show little change. New York Baldwins A-2½ were quoted firm at shipping points at \$6.25@6.50 per barrel f. o. b. Prices in consuming markets were nearly steady at \$7 @7.50 per barrel.

POTATOES

The potato crop forecast was increased nearly 23,000,000 bushels on October 1, the total being 345,844,000 bushels. This is still below normal consumptive requirements. Potato prices in eastern markets advanced last week in spite of the heaviest supply of the season and madest. last week in spite of the heaviest supply of the season and a moderate demand. New York round whites were quoted at \$2.10@2.45 per 100 pounds sacked in eastern consuming markets with northern round whites bringing \$2@2.25 at Chicago and \$1.75@1.95 per 100 pounds sacked f. o. b. shipping points.

GRAND RAPIDS

Jack Frost's visit to the potato belt of western and northern Michigan last week reflected in the increased re-ceipts of potatoes on the local markets cepts of potatoes on the local markets this week and the generally weaker tone of bidding. Consumers continue to buy scantily. Offerings are heavy with many farmers peddling from house to house when the wholesale and retail markets are not very active.

Vegetables.—Potatoes \$1@1.25 per bu; dry onions, firm to strong \$2.50@3.50 cwt; celery \$1@1.25 box; cabbage 75c@\$1 bu; beets. carrots. turnips.

3.50 cwt; celery \$1@1.25 box; cabbage 75c@\$1 bu; beets, carrots, turnips, squash and pumpkins \$1 bu.

Fruit.—Apples, fancy and first \$1.50 @2 bu; seconds \$1.25@1.50 bu; culls and windfalls 50c@\$1 bu. Seconds and culls seem to be finding a more ready sale than firsts. Pears, Kiefers \$1@1.25 bu. Some bulk shipments now being made.

Grain.—Wheat market irregular; No. 1 red \$1.10 bu; No. 1 white \$1.07 bu; rye 75c bu; barley 85c bu; oats 42c bu; corn 60c bu; buckwheat \$1.25 cwt; beans, white pea \$3.50@3.75 per

cwt; beans, white pea \$3.50@3.75 per cwt; red kidney \$7@7.25 cwt.
Greenville, Mich.—Potatoes lower;
No. 1 white sacked \$1.30@1.60 cwt.

DETROIT CITY MARKET

The receipts of apples are rathre The receipts of apples are rathre large but potatoes are scarce enough to be firm. Tomatoes are in light supply because the season is near the end. Good fall and winter apples are bringing \$2.25@3.50 per bu; grapes, 9c per lb; crab apples. \$2.50@2.75 bu; home-grown tomatoes \$1.75@2 a bu; cabbage 50@75c bu; onions \$4.75@5 bu; pears \$2@2.50 bushel for Keiffers; uninces \$3.03.50 bu. These prices are quinces \$3@3.50 bu. These prices are for shipped-in produce.

COMING LIVE STOCK SALES.

Poland-China.—Oct. 22, Livery Barn, Caledonia, Mich. Loughlin, Sherk & Adams. Wesley Hile, fieldman,

Adams. Wesley Hile, fieldman, Ionia, Mich.
Poland-China.—Oct. 26, F. W. Hart, St. Louis, Mich.
Poland-China.—Oct. 27, E. R. Leonard St. Louis, Mich.
Poland-China.—Oct. 28, P. P. Pope, Mt. Pleasant, Mich.
Poland-Chinas.—Nov. 3, Brewbaker & Sons, Elsie, Mich.
Holsteins.—Nov. 16, Saginaw Valley Holstein-Friesian Breeders' Association, Saginaw County Fair Grounds.
Consignment Sale.—Nov. 18. State Fair Grounds, Jackson, Mich.

Allegan county, Mr. Bentall, has quickly sensed the need of the hour. He is arranging to put on a dairy and alfalfa promotion campaign, beginning October 26 and continuing for ten days. Present plans are to hold a number of meetings each day of the ten. The purpose is to put the dairy business under Allegan conditions and to promote the more generous planting of in times past shipped dressed meat to alfalfa. Under Mr. Bentall's able management there is every reason to believe that this campaign will mean much to the future of farming in this department. The following communimost progressive agricultural county.

QUALITY OF MICHIGAN'S POTATO CROP GOOD.

No serious developments of late potato blight has occurred in Michigan this year. The quality of the crop as a result promises to be good. There is every reason for the potatoes handling well, according to H. C. Moore, potato crop specialist of the M. A. C.

Some confusion has resulted from the indiscriminate use of the terms employed in describing potato diseases. There has been quite a little Tipburn or Early Blight, but this disease does not affect the keeping qualities of the tubers as everyone with experience knows. It simply causes the death of the vines in the field which, of course, stops growth of the potatoes. Late Blight, on the other hand, does affect the keeping qualities of the potatoes, but according to Mr. Moore, this disease is not common in Michigan this year.

FARMERS' DAIRY MARKETING COMMITTEE MEET.

W HILE the great dairy show was in progress the Farmers' Dairy Marketing Committee of Eleven met at St. Paul and mapped out its general ar St. Faul and mapped out its general program of work to study the various cooperative dairy marketing organizations and draft a general plan for the guidance of all dairy farmers in the marketing of their products.

The committee appointed by President Howard, of the American Farm dent Howard, of the American Farm Bureau Federation, mapped out their general program of work, appointing five sub-committees to begin investiga-tion and report on five important phases of the problem. The marketing of whole milk will be studied by Messrs. Milo D. Campbell, of Michigan; Larson, of Illinois; Pat-tee, of New England, and Hartke. Co-perative creamery and cheese factory

tee, of New England, and Hartke. Cooperative creamery and cheese factory investigation will be done by Messrs. Nickerson, of Minnesota; Krumrey, of Wisconsin, and Bechtelheimer, of Iowa. A report on the marketing of dairy products, such as milk powder, will be made by Messrs. Harvey, Larson and Nickerson. The relation of cooperative laws to distribution of dairy products will be studied by Messrs. Miller, of the Dairymen's League; Heaton, of the American Farm Bureau Federation, and Hawley, of Oregon. And a report on publicity and advertising of dairy products will be made by Messrs. Larson, Heaton and Bechtelheimer.

After discussing pending cooperative marketing legislation, the following resolution was unanimously passed: "Resolved, that we endorse the Capper-Volstead Cooperative Marketing Bill as it passed the house of representatives and ask the United States sentatives and ask the United States Senate to adopt it."

ANOTHER SUCCESSFUL YEAR'S BUSINESS.

THE Grand Rapids Growers' Asso-ciation at Grand Rapids is closing another very successful year this month, despite the adverse business conditions under which it has been op-erating for the past twelve months. A new board of directors will be elect-

A new board of directors will be elected at the annual meeting to be held next Saturday, October 29, at which officials of the association will make detailed reports on the year's business. Additional returns of seven cents a bushels were made this week by the association on the 1920 Lombard plum crop shipped through the association. This brings the total receipts for the

THE very practical, level-headed and progressive county agent of current market in Grand Rapids.—R.

MORE CAREFUL INSPECTION OF MEAT FOR DETROIT.

BE more careful about the meat you ship to Detroit. The board of health of that city inaugurates a rigid inspection service to insure the consuming on the most economic basis possible pulic that meats offeredb are wholesome. Farmers all over Michigan have the city. After November 1 all meat brought into the city will be carefully examined by inspectors of the health cation from the local health department should be carefully read by all persons who are interested in sending dressed meats to the city:

In accordance with the laws and ordinances governing and regulating meat inspection, slaughter houses, stock yards, railway stations, warehouses, meat wagons, meat, poultry and fish, and the condemnation thereof when necessary, the department of health of the city of Detroit desires to inform all parties concerned that on and after November 1, 1921, these ordinances will be rigidly enforced.

The following paragraphs point out the principal parts of our laws under which we will operate and if followed

out, satisfactory inspection will result.

(a) All trucks, wagon beds, containers, receptacles, wagon covers and food products therein shall be kept clean, sanitary and well protected. (b) Carcasses of cattle shall be ac-

companied by the hearts, livers, lungs and the tongues with their glands in tact and so numbered or arranged that the parts can be identified with the carcass from which the parts have been removed. This pertains to carcasses brought into the city from the country, either by the farmer in person or through the railway express.

son or through the railway express.

(c) Sheep_carcasses shall be accompanied by the hearts, livers and lungs attached by their natural attachments. The entire pelt of sheep, including the skin (stockings) on the extremities shall be removed.

(d) Call carrages a shall be accompanied.

(d) Calf carcasses shall be accompanied by the hearts, livers and lungs attached by their natural attachments or in separate receptables and so marked or labeled that they may be identified with the carcasses from which they have been removed. The entire intestinal tract shall be removed and the thoracic cavity well drained, with the umbilical cord intact and the skin shall be absolutely clean. This also pertains to carcasses shipped into the city from the country.

(e) Swine carcasses shall be accompanied by the hearts, livers, lungs and heads attached by their natural attachments, or if the carcasses are split the heads shall be so marked as to be identified with the carcass from which same has been removed, if the carcass is unsplit it shall be entirely opened from "hitch bone" to angle of jaws to facilitate inspection and this opening be so arranged as to be maintained af-ter carcass is chilled. The skin shall

be free from all hair and scruff.

This department requests the incision in the necks be spread at the time of slaughter in order to facilitate the inspection of heads of chilled and froz-en carcasses at market points.

(f) The removal from any carcass or organ, tissue that may be diseased, such as abscesses, adhesions or other abnormal or diseaed conditions for the purpose of deceiving an inspector will regarded as a misdemeanor under these regulations and will necessitate the confiscation and condemnation of the entire carcass.

g) The state law provides that all calves shall be at least four weeks of age before being slaughtered for food

(h) No retail market is permitted to have in their possession or offer for sale any unstamped or uninspected

(i) Inspection will be at the Eastern Market from 6.00 a. m. to 10:00 a. m., and at the Western Market from 6:00 a. m. to 10:00 a. m., on all days except

a. m. to 10:00 a. m., on all days except Sundays and holidays.

Meats may be received for inspection at any official establishment where there is an inspector, upon the conditions prescribed in the foregoing regulations. Poultry and fish are not included in these regulations but are however, subject at all times to inspection. All sausage shall be made from inspected and passed meats.

To assure the public that all meat

offered for sale is free from disease, that it has been killed under clean conditions and handled properly, is the object of this work and the department solicits the cooperation of all wellmeaning persons.

THE CONDENSED MILK MARKET

HERE is little optimism among dealers in condensed milk and allied products as the market continues to be irregular and buying strength is lacking. There has been enough movement of case condensed milk to sus-tain the values of the past few weeks but in view of the fact that milk prices are advancing in producing sections that condition is anything but satisfactoy fom the standpoint of the manufactueh. While there has been some export inquiry, principally from English sources, no actual orders have been placed as the prices offered are lower than manufacturers feel that they can accept without meeting with financial losses. There has been a mod-erate movement in case goods for domestic demand.

Since the close of the ice cream season, evaporated milk has been in light demand. There is some tendency on the part of manufacturers to lower their prices but that attracts few buy-ers. Bulk sweetened condensed milk is in fair demand and prices have hardened somewhat during the past few days but there is no indication that there will be general revival of interest in that product. Other prod-ucts such as bulk sweetened skimmed condensed and milk powders are accumulating and the price trend is slightly downward.

Gombault's Caustic Balsam

Human and Veterinary

As a veterinary remedy its curative qualities have been acknowledged for many years in cases of Curb, Splint, Sweeny, Capped Hock, Strained Tendons, Spavin, Ringbone and other bony tumors.

A Perfect Antiseptic Soothing and Healing

For treatment of Rheumatism, Sprains, Neuralgia, Lumbago, Sore Throat, Stiff Joints, Cuts and Bruises it is invaluable. \$1.50 per bottle at druggists, or sent by parcel post on receipt of price. The Lawrence-Williams Co., Cleveland, O.



YOU MAY NEED! THIS TONIGHT

At half the regular price we are introducing the "Home Protector" Burglar Alarm. This new device can save you \$500 or more by giving you perfect protection on the doors, or windows of your house, barns, or sheds. The most wonderful and simple ringing alarm yet produced. Mail \$1 now and protect yourself and all valuables from the inereasing number of nightly prowlers. Approved by the police. Money back if not satisfied.

HOME PROTECTOR
Detroit, Mich. Sun Bldg.

I will condition a Horse or Cow in twelve days. Put flesh on its bones. Give it life and vigor. Can add 50% to looks Satisfaction guaranteed or no pay Send postal for free offer.

P. M. FAUST, BRYN MAWR, PA. BRYN MAWR, PA.

Our trade on fancy poultry farm eggs is increasing daily. Therefore we are in a position to pay liberal premiums above the Chicago market for fine new laid stock.

We solicit your shipments. Ship via Express AMERICAN BUTTER & CHEESE COMPANY., 2034 Howard St., Detroit, Mich

Holmes, Stuwe Co., 2429 Riopelle St. Commission Merchants. Dressed Beef, Hogs, calves, Poultry, Live & Dressed, Provisions, etc. Correspon-dence Solicited. Ref. Wayne County & Home Savings Bank. Bradstreet. Detroit, Mich. Cad. 2887

HAY Ship To The Old Reliable House GEO. E. ROGERS & CO., 601 Wabash Bldg., Pittsburgh, Pa.

SHIPPERS, for highest prices bill all cars to The E.L. RICHMOND CO., Detroit. HAY

\$20 daily selling wonderful new low-priced bumper. Outsells all others. Every Ford owner eager buyer. Act quiek. WALLACE, MOCORMICK. Strestor, Illinois.

FURS Greatly increase your prefits by reading instructive books on Trapping, Buying, Raising, Tanning, A. 2-page Booklet FREAL AR. HARDING, Ohio Ave., Columbus, O.

atural Leaf Tobacco, Kentucky's finest, 3 years old.

A Specially picked chewing, 2 lb. 31; 10 lb. 34. Smoting, first grade, 3 lb. 31; second grade, 5 lb. 31; second grade, 5 lb. 31; second Hancock Leaf Tobacco Ass'n., Dept 20, Hawesville, Ky.

FARM HELP

WANTED NOW single man exper-ienced in A. R. O. work and profitable milk production with Holsteins. WILLIAM B. HATCH, Ypsilanti, Mich.

HOGS

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.

O. I. C. Spring boars and gilts no akin. We breed and C. cwn the Grand Champion Boar at West Mich. State Fair. We ship C. O. D. and Reg. free. GEO. M. WELTON & SON. Alto, Mich.

O. I. C's. 20 choice young boars, also fall pigs.
CLOVER LEAF STOCK FARM, Monroe, Mich.

O. I. C's Choice April boar from a grand daughters of Wildwood Prince and from a son of Petroleum Giant. A. J. Barker & Son, Belmont, Mich

BIG ED and FOREST GIANT

Disher's Giant's Greatest Sons

Choice Spring boars by them and Cook's Liberty Bonds, out of popular bred dams for sale. Write for price and descriptions. Wesley Hile, Ionia, Mich.

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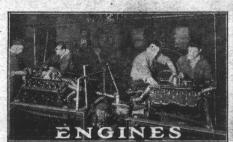
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