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IT IS NOT a good spiritual policy for us who are now living to thank God only for the material progress of our times; because these material things will soon give place to something better, and then our prayers and hymns will seem lost, and we who lived for them will seem to perish with them. But if we bless God for the sun that has held us in its arms, and for the autumns that have painted the fields and have set in mezzotint the sky and sea and land, then we have a worship which the future cannot take away from our souls or memories. Man's world changes, but human life may easily find an unchanging greatness. As

the goodness of old Governor Bradford shines out through his irregular verse and distorted syntax, thus the merit of our race often is mingled with little defects, but still it may possess a beautiful and everlasting part. As the game and fruits on the table in 1621 would be good for our table today, so their happiness would be all we could wish this week in our reunions at home, because man's happiness comes chiefly from the fact of a heart at peace with the universe. Man must, for the most part, give thanks for his life rather than for the field through which that life continues to flow.

—David Swing

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DETROIT, NOVEMBER 20, 1920

CURRENT COMMENT

Immigration and Agriculture

T HAT a large num ber of immigrants from the war stricken countries of Europe will seek entrance into the United States

is already being demonstrated. attitude which this country should take in the matter is certain to become a mooted question in the future. Quite naturally every class of citizens will look at the matter from their class standpoint, rather than from the broader American standpoint. Industry will welcome the arrival of potential laborers, as a possible means of increasing or cheapening production. Organized labor will quite naturally charge that immigration is being promoted and used to cheapen wages and lower the standard of living of the American workman. Many thoughtful citizens will fear the growth of radicalism as the result of the admission of a horde of immigrants from southern Europe. Thus the class viewpoint will affect individual opinion on this many-sided question.

From the agricultural viewpoint it would appear that this natural increase in immigration would be beneficial rather than detrimental. European industry is badly shattered as a result of the war. Most European countries are unable to provide employment for all their people at a wage which will support them at all, let alone comfortably. Nor are these countries able to buy foodstuffs in our market for their adequate relief, due to the depreciated state of their money. Almost without exception, the countries of the world which are now on a agricultural progress?—yet remains farmers plan to make their farm a persound financial basis are the great agricultural countries, and there are notoutlet for our surplus foodstuffs an un- ion added: certain proposition in immediately suc-

the standpoint of national prosperity Sale."

The widespread unrest and general dishonest tenants. Right between these increase of industrial exports sent to desire to sell the farm and go into two farms was one owned by a prosone other prosperous agricultural countries some other line of business has been perous farmer. His son had completed of the Figure 1.

poverished Europe can not now pro- he certainly will not plant with a view ed to be prosperous and the two fam-vide for us. True, "the "melting pot" for the future. Before our agriculture ilies were happy and contented. The The Lawrence Publishing Co. ize this fresh horde of foreign blood must have more men who have the de- of the other two farms described, but same time aiding in the immediate re- ing basis. lief of Europe it is a task well worth can well join from the American view-

> Farm For Sale

Next in rank to the "Farm for Sale" tural progress in his county? while, and one in which all classes sign, is the absentee landlord who great many leaks in and who look upon the ownership of payment need not hesitate about buy-

must be worked overtime to American- can make the maximum of progress we land was naturally no better than that or the alarmists' apprehensions may sire to carefully settle themselves to the farm was well-stocked and wellbe, to some degree at least, realized. a life work in some particular branch equipped and kept up in first-class But American institutions and Ameri- of farming and plan accordingly, not condition. This farm was not for sale, can communities are equal to this task impatient for immediate profits, but, Did not these three farms, all within if they set themselves to it in earnest. with a view for the future, and who a square mile, prove that there was And if it can be made to spell contin- are willing to stay on their farms until something in the county agent's arguued prosperity for our nation, at the they have put them on a money-mak- ment that the "Farm for Sale" sign was the greatest obstacle to agricul-

Young men who have an ambition cares little for the permanency and to establish a home for their families value of his farm, even though his per- should look upon the "Farm for Sale" sonal profit would be conserved if he sign as a beacon light calling them W HAT do you con- treated his farm more in the nature of back to the land. Never were condisider the great- a permanent investment. In many in- tions quite so favorable for judicious est obstacle to agri- stances such farms have been inherit- investments in farm land right here in cultural progress? Sci- ed by men who have made a fortune in Michigan. Those who have the capital ence has discovered a other business or professional lines, necessary to make a reasonable first farm management, and chemistry has land as a liability rather than an asset. ing a good farm in a community where followed up this good work by telling There are farms throughout the state they are well-known and have estabus what our soils, plants and animals that are not paying an income suffi- lished a satisfactory line of credit. The need to make them productive and fat. cient to keep up the taxes and main- time is coming when the ownership of But, after all, the microscope of the tain the premises in good condition. It land is going to mean far more than scientist and the retort of the chemist isn't because they couldn't be made to it does today. A balance in agriculseem to have left this vital problem support a family and pay some profit, ture will soon be struck where not one still unsolved. The question-what do but is due to a general lack of interest but every possibility will be brought you consider the greatest obstacle to and enthusiasm in farming. Very few to its maximum effort, and then the man who knows how to apply his labor and knowledge to a good farm and good live stock-not to land exhausted during the great soil-mining period and to mongrel live stock-will begin to take stock in his surroundings and thank God that he followed the beacon light which showed the way to the farm, with its home, its work and its surroundings.

"The Voice of the Pack"

Our New Serial by Edison Marshall, Starts Next Week

HERE is a thrilling tale of how Dan Failing, a modern man, and Snowbird, a frontierswoman, arrayed themselves against the forces of age-old savagery. It is a love story, adventure

There are glowing descriptions of the Oregon woods, thrilling recitals of encounters between its wild denizens, an account of a mountain lion's stalk that makes one personally thankful at the great beast's death, and a remarkable picture of a wolf

No one, it is said, however safe and protected, can hear unmoved the cry of the wolf pack, whether it be the strong triumphant cry of early fall, the sad mournful howl of midwinter, or the exultant chorus of the hunting cry, it stirs the deep-hidden instincts and unconscious memories of primitive man which civilization has never entirely destroyed.

It is the symbol of the wild, or so it seemed to Dan Failing, come back to the homeland of his frontiersman grandfather to spend the last four months of life which the lung specialists had given him. Back in the Oregon forests, however, Dan experiences a curious throwback to his famous ancestor. Outside of his bodily weakness, he seems almost a reincarnation. He is a woodsman by intuition, a dead shot at sight, and his knowledge of the wild creatures springs up practically full-fledged, a strange instinct. Then his joy and love of the life, and also his love for his mountaineer host's daughter, Snowbird, awaken his ambition to live. Eventually he proves himself at all points a man, a worthy descendant of old Dan Failing, the finest frontiersman of his day. This wholesome serial will start in next week's issue.

story and nature story combined.

without a conclusive answer.

able exceptions in this class. This fact tion of one of the shrewdest and most the soil is losing its fertility, the buildgreatly restricts the foreign market for successful county agents in Michigan ings are running down and there is food products, and makes the foreign -and to get him to express his opin-nobody on the place who takes an in-

ceeding years. On the other hand, our Is it the lack of marketing and trans- er, is renting the pasture or cutting possible market for manufactures will portation facilities? Is it the land-own what little grass grows on the farm be much broader, as it includes coun- er and tenant problem? Is it due to and feeding it out on his own premisbe much broader, as it includes coun- er and tenant problem? Is it due to and feeding it out on his own premis. I Crimea and violently attack Gentries which do not need our food prod- the oppressive middlemen? Or, as es. This would sound rather discour- eral Wrangel's last line of defense. ucts. Thus an increase in our manumany claim, is it due to the lack of aging and sensational were it not for Diplomats of both Italy and Jugo-Slav

manent home, consequently they take Recently the writer asked this ques. little interest in keeping things up, terest in keeping things up-perhaps "Is it the scarcity of farm laborers? some neighbor, who is a practical farm-

viewpoint as above set forth. From county today is the sign, "Farm for where families had moved to the city other prosperous agricultural countries some other line of business has been perous farmer. His son had completed of the Flume narbor. It is volunteers will serve to maintain that favorable the bane of Michigan agriculture for a a course at M. A. C. and returned to are warned by the military to cease balance of trade, which is essential to number of years. If the farmer does the farm and entered into a partner of gasoline is reduced on page 650).

(Continued on page 650) national prosperity, and which an im- not consider his home a permanent one ship with his father. Everything seem-

News of the Week

Wednesday, November 10.

IT is announced that Italian delegates at Santa Margherita have presented an ultimatum to the Jugo-Slav delegation concerning the frontier line and the independence of Fiume.-Bulgaria makes application for admission to the League of Nations.—A movement is started in Michigan to secure legislation compelling attendance of children in schools until they reach the age of eighteen years.

Thursday, November 11.

RANCE becomes alarmed over the entry of fifty thousand German troops into Lithuania from East Prussia.—The Jugo-Slav delegates have accepted all the Italian claims at the conferences over the Adriatic question.

Forty-eight persons are believed to have perished when a small steamer was struck by a typhoon among the south Philippine Islands.—Kansas bankers decide to assist the wheat growers of that state in holding grain for hatter prices. Pussion society. for better prices.—Russian soviet troops have crossed into the Crimean peninsula.

Friday, November 12.

THE assembly of the League of Nations is sharply divided over the question of admitting to the league former enemy states.—It is now expected that judges of the new international court will be elected this coming spring.—Chicago banks announce that there will be plenty of money for building purposes as soon as prices for building purposes as soon as prices for materials are reduced to a reasonable level.—The British House of Commons passes the Irish Home Rule bill on its third reading and the measure now goes to the house of lords.

Saturday, November 13.

THE Russian bolshevik armies enter factures and commerce are essential adequate capital to develop the business and increased home consumption of foreign demand for those products.

The essential question is whether the American viewpoint on this question is in line with the agricultural state to develop the business and making fair profits from their business.

The definition over the adequate capital to develop the business and making fair profits from their business.

The essential question is whether the found with a microscope or by iness.

The essential question is whether the found with a microscope or by iness.

The definition over the agreement on the Adriatic question neighborhoods where these farms are going ahead ippinos announce their drive for complete independence.—The Atlantic and Pacific fleets of the United States will make the first this a joint cruise to the west country agent we visited two farms such as above set forth. From country today is the sign "Form for whore families had proved to the agricultural progress in this sensational were it not to the adriatic question over the agreement on the Adriatic question in the different agreement on the Adriatic question the fact that right in the different agreement on the Adriatic question the situated other farmers are going ahead ippinos announce their drive for complete independence.—The Atlantic and Pacific fleets of the United States will make a joint cruise to the west country agent we visited two farms.

Sunday, November 14.

(Continued on page 650).

Who Shall Make Agricultural Prices?

Shall Prices for Farm Products be Made Within the Great Industry of Agriculture or Without? This is the Momentous Question Toward Which We are Moving

By James N. McBride

HE orthodox agricultural econ- process of manufacture and sale of below cost of production, and to stab- occur automatically. The gentlemen's unalterable and irrevocable and when farmer only can sell his wheat once, advises against flying from present These established prices in the prodapplied to the farmer's product, un. The exchange sells twice at least, once evils to possibly greater ones. The ag- ucts outside of agriculture are the inescapable. Supply and demand are, on the actual wheat and again on a ricultural economist uses phrases such terpretation of supply and demand by however, only two views of the same similar amount to replace the grain as "economic fundamentals," "supply men whose interests are within the inobject, and in the end the obtaining of sold to the miller. this object is a question of knowledge,

and supply and shrewdly conceals the described as fundamentally an error the balk cost of balk c for that is in reality an element charged out against grain handling that reduces the price to the grower. It is for this margin there is paid a high price for the seats in the grain exchanges. All the claims of an open market-supply and demand-does not alter this fact.

Whether the trader is a bull or a bear, this hoped for margin is a toll on the business that has its defense largely in the ability of millers to "hedge" and deliver flour from wheat on a safe profit based on wheat they have or may have. The very protection the millers have is the one thing sought by the growers of wheat.

C OOPERATIVE elevators are denied seats on grain exchanges, because it would be to their interests to decrease this cost or margin of profit. These elevators are denied seats because they distribute earnings or profits back to the producers of grains, and technically, exchanges call them rebates, which is against a rule established by the exchanges. In this circle of operations cooperative elevators to be immune from prosecution under the anti-trust laws when participating in collective selling must restore profits on basis of commodities. This compulsory legal restoration prevents these elevators from selling or participating in what the grain exchanges are pleased to term an "open" market. To be sure, the cooperatives can sell through houses having seats on the exchanges, but this does not allow them to participate in price making, for they are handlers of grain and cannot speculate as can the private elevator owner.

To state it another way, the grain exchanges cooperate in establishing a price level with opportunity for wide margins, and compete above this line. Their defense is that it is a competitive market where the best talent in process of production and in the ty per cent is the extremes of the relation of producers of each is ecomeasures supply and demand and in hands of the grower is a world-wide most favored and least unfavorable, nomic liberty. and that anyone can buy and sell trol. Supply and demand, relentless ket have to be reckoned with. blance of fact in this, the countryman grower the victim of his own industry or man of the street would be able to if a large crop is grown. In the hands buy and sell just as well as if he had a of the exchanges, with the price level cost of sugar in different mills is a Sherman law is conclusive in connec-

THE established grain trade rather grain, profits must be assured and the profit to eighty per cent. The least collectivity any different than manuas long as it is kept in its place to sell profit, while the increased volume increase their output so there is con-legal possibility. The classification of through their organization, but bitterly grown and handled by the grower stant elimination of the inefficient, and corporations are for profit through opposes any attempt at selling directly tends to reduce his profits below cost. the standard needs are thus maintain- stock ownership and the other for profto the trade. The miller must stabil..... To get into the same class with the ed. The records of business failures it in the ratio of commodities handled ize his ownership of grain during the dealer and miller away from a price are largely these eliminations which

skill, and largely the mechanism of denied manufacturers the right to well, uttered with sufficient reitera- by men outside of the industry and The startling level of grain prices is but the system of "hedging" accom- dom. The claim of cost of production cause it is more profitable to remain an important point. The professional plishes this same purpose and end, as a basis for price making, is like that outside, some human fingers must buyer of actual grain, like any con- There is no inherent objection to this of supply and demand, in the long run write down the prices of products. Suptractor, takes into consideration all guarantee if it were made or attempt- a determining factor, but not always ply and demand does not as an autothe hazards and desires a low level. He ed to be made to apply to the produc- immediately active to give an equita- matic oracle, write these decrees of pays for the best knowledge of demand er as well. The suggestion of this is ble answer. As a general principle, agricultural prices. and supply and shrewdly conceals the described as fundamentally an error the bulk cost of eighty per cent of a

omist approaches this subject in flour, so he finds a safe insurance in ilize markets is the desire and demand agreements, submission of prices or a mathematical way and has an "hedging" against his cash purchases of the grain grower. The professional the recognition of strong leadership as equation that reads: "Demand divid- by buying futures. There is in reality grain trader says it can not be done, in the case of iron and steel, woolen ed into supply equals price." This, like a double buying with double commis- and rests his case on an opinion rather goods, oils, etc., establishes these bulk the law of the Medes and Persians, is sions for execution of orders. The than evidence. The agricultural writer prices, leaving a margin of profit. and demand," which neither aids nor dustries. Agricultural prices are the The federal trade commission have suggests a remedy. Phrases that sound interpretations of supply and demand guarantee prices until a resale is made, tion are often made to pass for wis- who do not go into that industry be-

term carries with it an assumption of arbitrary power which may be used oppressively. This conception has had its legal survey by the United States Supreme Court and the popular misconception was not upheld. Power, size or degree of control are not "illegal; it is the use or intent of the power; the rule of reason promulgated by the court is certainly most reasonable.

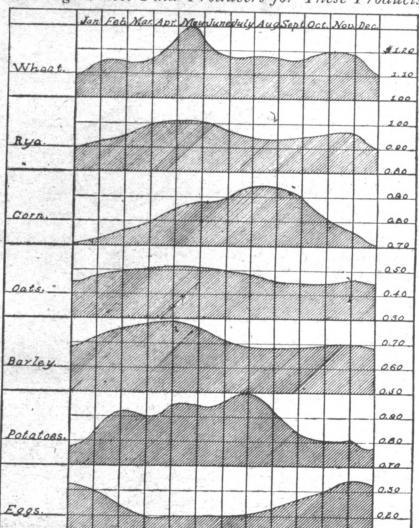
Many agricultural writers assume a superior air and say that the lodgement of the power of interpretation of supply and demand with agriculture would be in disregard to the rights of the consumer. All normal persons are producers and primarily have their paramount interest in their products. The lack of logic is the transferral of the equity among producers to a comparison between producer and consumer. The socialist is guilty of this same loose thinking when he views the world from the consumer's standpoint, and awakes to find that the stern duty of life is production, and unless this is done, there is no food supply. To paraphrase the famous observation of President Lincoln, "The industrial world cannot continue to survive where the prices of agricultural products are determined without and apart from that industry, and the prices which this industry must pay for the products of other industries is determined by those within."

N the final analysis, it is not a question of price fixing, but a question of who does it. Agriculture is from time to time asserting this power, and the proposition must be met instead of evaded. Economic industrial liberty is quite as much a right as civil or religious liberty. A pound of grain or meat has its nutritive ratio constant as is the tensile strength of a bar of iron. Their exchange relation is a varying one, and the self-determination of the

The timidity of agricultural leadership in this regard has neither economic nor legal foundation. The nec-THIS principle applies to manufac- essity of the Volstead bill is not appartured goods as well. The absolute ent. The Clayton amendment to the on many times the sale of the same uets bulks the prices to afford a fair ed. The attempt to make agricultural

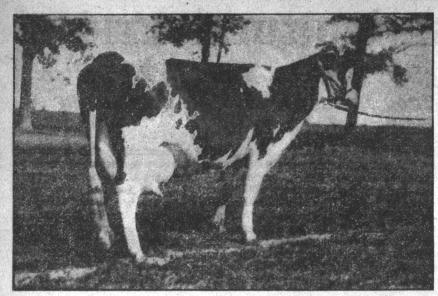
(Continued on page 626).

Average Prices Paid Producers for These Products



Carefully observe the wide fluctuations during the course of the year in the prices of each of these seven important products of the farm and then study with even greater care the position taken in the accompanying article by Farmer McBride, of Shiawassee county, who incidentally, is a member of the economic committee of the American Farm Bureau Federation.

commodity and its price is beyond con- all of whose products once on the marthrough them. If there was a sem- as the tides, must forever make the place on the exchanges, but if he at- low enough to allow profits and the varying one, also of nails. The master tion with the supreme court decisions tempts this, he is a lamb to be shorn. possibilities of numerous commissions minds directing the sale of these prod- in the tobacco cases as previously notwelcomes the cooperative elevator greater the volume traded in, the more favored drop out and the more favored facturing collectivity is of doubtful



Grand Champion Female at Lenawee Fair. Owned by Mr. Rhead.

are by no means hard to find.

methods of soil management and the ness in grain and farm supplies and growing of more proteinaceous forage ships live stock. The officers and dimanagement of the County Farm Bu- I. Howe, Charles Bower, W. T. Phelps, reau and soil improvement is one of W. K. Smith, A. J. Denton, Floyd Galdue attention during the next three ager. Last year the volume of business be gathered from field experiments and cooperative organization handling are cooperating with County Agent more than two-thirds of the business Sims and the extension men from M. of a prosperous farming community in-A. C. in conducting such experiments stead of the farmers supporting five on their farms. Some of the field plots or six dealers and middlemen. The orvisited have been laid out in such a ganization has been in business sever work is so complete that the results year. can hardly fail to prove of great benefit to the farmers of the county.

tive associations has been rapidly Payne, manager. cannot afford to go it alone.

State Cooperative Association at Mont- ton Pomeroy, president. four departments: Creamery, elevator, ton and James Post, directors.

ILLSDALE is chiefly a rural coun- ling the various small products of the ty. The tendency of the farmers farms in that territory and putting Mosher, president. is to diversify their crops and them on the market in shape to comfeed live stock, rather than take long mand fair prices. The elevator departchances on specialties. Her many acres ment has joined the Michigan State duct a general elevator and farm supof rolling lands and different soil types Farm Bureau Exchange and will do phy husiness. It has about one hun- owns and operates a splendid two hunon the same farms are largely respon- business that way. The creamery and dred members at present. Mr. Weath- dred and ten acre farm where he sible for this; the tendency to play general produce departments have erwax is manager. safe and return as much manure and been big factors in developing the organic matter as possible to the land dairy, poultry and general produce busis another contributing factor. There iness in that section. The association is a degree of sameness about the now has six hundred members and did farms that makes it difficult for one to a business of more than \$900,000 the describe the farming practices of cer- past year. They own a complete creamway that does not ery and cold storage plant and when approximate the general tendencies of the new buildings are completed will others. And yet individual examples be in a position to handle the business of well-balanced farming operations to better advantage than ever before.

At Reading the Cooperative Com-The county's greatest need is better merce Company does a general busicrops. This fact is recognized by the rectors are: George Card, president; the lines of work that is to be given loway, directors. A. E. Hakes is manyears. The farmers of the county have amounted to more than \$500,000. Here long desired such information as may is a splendid example of an efficient manner that results can be noticed by al years and each year's business has sociation has been in business some farmers in Hillsdale county. Mr. Maypeople driving by the fields and the shown a gain over that of the previous time. H. J. Gockhanour is secretary

The Hillsdale Cooperative Association at Hillsdale has been in operation about five years and does a general Hillsdale county, was born in Indi-Hillsdale county is well organized about five years and does a general

farmers in several communities has tion did a business of \$125,000 last experience and hard knocks. He has of the executive board, owns and operconvinced some of the managers of the year and plans are being prefected to gotten his work well under way ates a fine two hundred acre farm and independent organizations that they enlarge the business and take on new throughout the county and seems to practices general farming and cattle lines. Mr. LeFleur is manager.

A MONG the different cooperative or- sociation did a business of \$100,000 last keting, soil improvement and commute the farmers of the county. He is recapitations in the county The Tri- year. Tom Wells is manager and Allieve stock improvement.

association has been in business six tion was organized last June and a drive in the county and acted as farm

Our Farm Bureaus

The Circuit Rider Finds that Hillsdale Higher Type of Agriculture Under the

members are a good live group of He had the organization work well unfarmers who mean business. H. E. der way and left things in good shape Tuttle is president.

The Somerset Cooperative Association was organized in June and con-

The Mosherville Cooperative Association is a brand new one and will do a general shipping and farm supply business. J. D. Angell is president and W. A. Gillispie, manager.

The Pittsford Cooperative Associa tion was organized in June and has purchased a complete plant for handling a shipping and farm supply business. It has a bunch of live members and is expected to do a big business William Harmon is manager and N. J. Likely, president.

The Moscow Live Stock Shipping As-



Hog House of H. M. Abbaduska.

for business. With a County Farm business in shipping farm produce and ana and lived in Mason county, Michi-Bureau membership of two thousand handling farm supplies. Last year's gan before attending M. A. C., from one hundred, and a progressive execu- business amounted to more than \$200,- which he graduated in 1918. After tive board the organization of coopera- 000. E. S. Lamb is president and Bert graduating from East Lansing he taught agriculture at the Hillsdale pushed until practically every farmer Among the cooperative creameries High School. In July, 1920, he took in the county will soon find it easy to in the county the Litchfield creamery charge of the Hillsdale County Farm secure farm bureau service within easy has a reputation second to none in the Bureau. During the time he was teachdistance of his farm. County Agent country. Last year's sales totaled near- ing at Hillsdale he formed many ac-Sims, who assumed charge of the work ly \$500,000. This creamery has been quaintances over the country through the first of last July, has continued the in operation nine years and has more his poultry culling work. In his colwork so well started by Dr. Nichols than six hundred stockholders. The lege work he specialized on soils and that it is only a question of a few officers and directors are: L. R. Lind- live stock husbandry, two branches of months before the new associations sey, president; A. F. Anderson, J. D. agriculture which need special attenthroughout the county will be ready Hawkes, H. W. Denham, Milan Wade, tion in Hillsdale county. Sims is a for business. The quick work of the J. Herring and F. N. Sherk, directors, good practical man whose knowledge of farming has been gained in some the standpoint of profit and pleasure. State Farm Bureau in securing ship- C. A. Bater is manager.

of farming has been gained in some measure from the good old school of Glenn Gordon, of Addison, member ments of fertilizer and coal for the At Litchfield the Shippers' Association and open and open. have the confidence and respect of the feeding. He is also a veterinarian At Allen the Live Stock Shipping As. farmers. His main projects are mar. and has a wide acquaintance among

Dr. A. Z. Nichols, of Hillsdale, presgomery is the leader. O. K. Coolman The North Adams Cooperative Asso- ident of the Hillsdale County Farm is manager and Ray Throop assistant ciation has recently been organized Bureau, has been a practicing veterimanager. The directors are: John and will conduct a general elevator narian and farmer in the county for Pridgeon, Henry Haynes, Fred Wigent, business and ship live stock. Herbert twenty-six years. He owns and oper-John Moshier, David McEllaine, John Wells is president; Lyman Stevens, ates a good one hundred and eighty-Knitigh and Henry Bradley. There are manager; Harley Roberts, John Quar- acre farm where he breeds Holstein cattle and Duroc Jersey swine. Dr. live stock and general produce. This The Prattville Cooperative Associa- Nichols had charge of the membership years and has made a success of hand- warehouse has been purchased. The bureau manager until the first of July.

for Mr. Sims to take hold of when he The Jonesville Live Stock Shippers' assumed charge of the work. Mr. Association have made plans to handle Nichols was thoroughly familiar with coal, fertilizer and supplies. William the peculiar conditions in the county Glascow is president and Claud Beau, and succeeded where many others secretary. It is reported that last would have failed in putting over the year's business amounted to more than farm bureau program. Few men have \$100,000, but the officers were not at a better and more sympathetic underhome when the writer was at Jones standing of the farmer and his problems than Mr. Nichols, and to meet The Osseo Cooperative Association him face to face and discuss the work was organized in June and has been he has in mind cannot fail to impress handling fertilizer, seed and live stock. one that he is the type of man that E. D. Cheney is manager and W. G. will work for the best welfare of his county from an agricultural point of

> Andy Adams, of Litchfield, vice-president of the County Farm Bureau, breeds Shorthorn cattle, Percheron horses and Chester White swine. In addition to breeding pure-bred stock, Mr. Adams grows quite an acreage of potatoes. At the head of his Shorthorn herd is Denmark Chief, a bull from Butterfly lines of blood and a really good individual. At present he has about thirty Scotch and Scotchtopped females in the herd. The seven Percheron horses are headed by a good stallion purchased from the M. A. C. Mr. Adams has about seventy-five head of Chester White hogs, among which are winners at Columbus, Detroit and other big fairs. Mr. Adams has recently completed one of the best stock barns in the county. It is 136x36 feet and modern in every respect. For several years Colonel Andy Adams has been a prominent figure at Shorthorn sales in all parts of Michigan. Always interested in agricultural improvement, better live stock and cooperative work he is sure to put life into the County Farm Bureau work.

I. K. Maystead, of Osseo, member of the executive board, is one of the best stead graduated from M. A. C. in 1915, and is deeply interested in pure-bred live stock and crop improvement work. On his one hundred and sixty acre farm he grows pedigreed grain crops and breeds Poland China hogs. His new hog house is one of the best in Michigan and few men are so well equipped for breeding and handling a pure-bred herd.

For a herd sire he has Orange Price 2. Among the sows is Lady Giantess, wonderfully good individual bred by W. B. Ramsdell. The young animals are well grown and show up well for their ages. Maystead is keeping a flock of five hundred White Leghorn hens. With good crops of grain and alfalfa and good hogs and poultry he has a



One of Mr. Espie's Hampshires.

and Their Work

County is Hopefully Moving Toward a Leadership of County Agent J. W. Sims

ognized as a hustler and a man thor- turn and represent them on the board. oughly fitted for the place.

the executive board, is a practical ONE of the most interesting farms dairy farmer and breeder of Holstein cattle. He has a splendid farm and outfit for conducting the dairy busi-ness. He stands well in his commu-ness. He stands well in his community and can be depended upon to support measures that will benefit the farmers of the county.

three hundred and twenty-five acre farm and conducts a general farming Lad, whose sire, Lothian Maggie De and sheep feeding business. At present he is feeding about four hundred lambs and seventy hogs. Mr. Glascow is a good farmer and experienced business man. He is generally recognized as a clear thinker and progressive

A. E. Hakes, of Reading, member of time. the executive board, owns a good one hundred and twenty acre farm and practices general farming. For five years he has managed the Reading Cooperative Company, one of the livest organizations in the county. Mr. Hakes has always been a leader in all kinds of cooperative work and is sure to prove a strong man for the place.

George Tanner, of Camden, member of the executive board, operates a splendid farm devoted to general farming and stock raising. Mr. Tanner was not at home when we visited his farm. He is a good citizen and a man the farmers can depend on at all times.

E. G. Shaneour, member of the exeecutive board, owns and operates a fine one hundred and twenty acre farm near Pittsford. Mr. Shaneour practices dairying and general farming. His farm is one of the neatest and best equipped in the county. He has been an active worker in putting across the farm bureau in his part of the county and is generally recognized as a progressive farmer who will keep the farm bureau work alive in his community.

Fred Shepard, member of the executive board, in partnership with his father, owns and operates two farms of three hundred acres near Allen. General farming with fruit growing for good farmer and business man.

game before another year.



The Pride of Andy Adams.

Kneedmore Farms near Pittsford. The specialty is pure-bred Holstein-Friesian cattle. Mrs. Rhead takes an active interest in the business and is one of Kol Son, is a son of that great producing cow, Lothian Maggie De Kol, who ter and 27,967 pounds of milk in one 52.058 oounds of milk in two years, the latter being a world's record at the

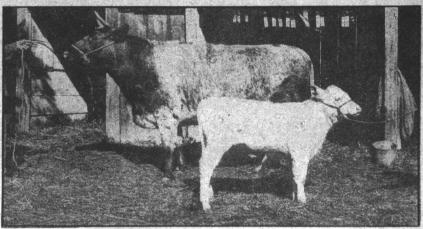
The sire of Lothian Maggie De Kol is Pietertje Sir Korndyke, making him a full brother to Lothian King De Kol Korndyke, better known as "Alex," the bull that upset the "dope." Pietertje Hengerveld Sir Korndyke has nine point. year record daughters, seven of which



One of Mr. Nye's Good Rams.

a leader is practiced. Mr. Shepard op- ling of 688.07 pounds of butter and fairs. Mr. Haynes has about forty head ewe. erates a tractor and motor truck and 15,288 pounds of milk in a year. Her on his farm at present. Besides Polquite likely be back in the farming lines. Several of these cows are being idea of keeping pure-breds. fitted and will soon be started on year-A. D. Dimmers, member of the ex- ly work. Mr. and Mrs. Rhead have Son, of Osseo, as breeders of Short-business ecutive board, of Osseo, has sold his laid a splendid foundation and if hard horn cattle, and feeders of beef cattle One of the problems confronting the ful breders of black-and-white cattle. ness.

> brood sows. Mr. Espie is a young, en- about sixty hogs. ergetic man and is making good with



Prize-winners from the Herd of J. M. Southworth.

to secure the best lines of blood and almost any herd in the country.

3, one of the best foundation dams of be held this fall. and Lord Clansman.

The day before we visited the carloads of tion, one of the good sires of the breed. horn breeding. They are also feeding in all the United States can supply. Messenger blood predominates in the three hundred and twenty lambs and Mr. Nye is breeding all three types

them with plenty of nourishment; and head of the Shorthorn herd is Village

William Glascow, of Jonesville, mem- the best judges of dairy cattle and ped- the demand for breeding stock is Baron, a son of Silver Knight. This ber of the executive board, owns a fine igrees in Michigan. At the head of strong. A Hampshire hog is heavier bull is an excellent individual and some the herd is Lothian Pietertje Korndyke than he looks and one rarely finds of his calves are coming along nicely. them lacking in stamina and strong Among the cows are several pure Scotch and some good Scotch-topped Mr. Espie's herd numbers about thir- individuals. A few Duchess cows and made a record of 1238.5 pounds of but- ty head and no effort has been spared young things are worthy of a place in

> year and 2,258 pounds of butter and produce strong, vigorous pigs. His big About three miles north of Waldron talking point is the records made by we visited the farm of H. M. Abbathe breed in the championship car-duska and looked over some of his loads at the Chicago International Duroc Jersey swine. Mr. Abbaduska where the two carloads of Hampshires has had some successful bred sow dressed an average of 81.65 per cent, sales and is recognized as one of the which was nearly one per cent higher best breeders in the state. For a herd than the champion single carcass of sire he has King Burketta, a large boar the show. That is a mighty strong that stands exceptionally well on his toes and has a good open eye. His pigs all show good color and conformamade their records as two and three-year-olds, with the nine averaging over A the farm of F. E. Haynes, near Os- and he has demonstrated his ability to 19,000 pounds of milk in a year. He see. Mr. Haynes has some of the best produce good even litters of the right was the first sire to have five two Big Type Poland China hogs in Michi- type to please the most critical judges year-old daughters with records above gan and is doing more to build up the of the breed. The sows are all bred 18,000 pounds of milk in a year. The breed in his own county than any oth- along Joe Orion lines and show redam of Lothian Pietertje Korndyke er man. His herd sire, Senator F., is markably good development. The farm Lad is Lothian Ruth Pietertje Korn a son of Art Senator, and grandson of is well equipped for handling the herd dyke, with a record as a senior year Rachael, grand champion sow at this and all of the young stuff is well year's Michigan State Fair. The brood grown. At present the herd numbers sows are descendants of Nemo Orange less than fifty head and no sale will

the breed. In 1919 she won first in And now we come to E. E. Nye. One her class at Detroit. Nemo Orange 3 cannot fail admiring Nye, for his enand her daughters form as good lines thusiasm for his Merinos and Delaines of breeding as could be desired. These is so infectious. His farm of one hunsows are being mated with Senator F. dred and eighty acres near Jonesville is well adapted for sheep husbandry. The spring gilts and boars are a fine He has only been in the business six lot and show remarkable uniformity years, but from his winnings at the reof type, fine heads, strong arched-backs cent state fair it is agreed that he is and good bone. Two of the gilts look a comer. At this year's Michigan State very much alike, have abundant bone, Fair he won first and champion on plenty of stretch, good backs and at- yearling B type Merino ram, first and tractive heads; they will make a pair champion on yearling B type ewe and of great sows before the next year's first and champion on Delaine aged

His flock numbers about one hunuses every possible labor saving device sire is a son of Pietertje Hengerveld and China hogs he has Jersey cattle dred and sixty head and sufficient rams to solve the help problem. He is a Sir Korndyke. Lothian Pietertje Korn and Rhode Island Red chickens, He are held over to supply his constantly dyke Lad is an excellent individual and is always active in any movement to growing home trade; the bulk of the Ray Baker, member of the executive both his sire and grandsire were show boost the cause of pure-bred live stock young rams being conditioned and sold board, from Camden, has sold his farm animals of note, while his dam shows in his county, and is one of the men to buyers from Texas and foreign counand at present is not engaged in busi- the real dairy conformation. Among who can see beyond the narrow limits tries. According to Mr. Nye the fine ness. Mr. Baker is an active worker the cows and heifers in the herd there of his own breed. To meet Mr. Haynes wool sheep is rapidly coming into its for better agriculture and a square are about fourteen head bred along and discuss better live stock is sure own in popularity and prices are reachdeal for the man on the farm. He will King Segis and Pontjac Korndyke to result in becoming converted to the ing a level that makes the business more attractive to men who under-The success of Charles Bowditch & stand the fine points of the breeding

farm and gone to New Mexico for the work and enthusiasm, coupled with a and sheep, begins with a good father. breeders of Merinos and Delaine sheep winter. He expects to return in the knowledge of type and pedgiree are Mr. Bowditch has about three hundred is that of encouraging other men in spring and purchase another farm. Mr. the keys to success in breeding they and twenty acres in his farms and has their communities to go into the busi-Dimmers is a live wire and the farm- are sure to be heard from as success- made his son a partner in the busi- ness to the end that they can furnish At Alta Loma Farm, one mile east farm young Bowditch had returned range country. There are a lot of of Jonesville, we visited Donald C. Es. from Kansas City with thirty-two head ranchmen in Texas who are taking an pie, all-around-good-farmer and breed- of as good feeder cattle as have come interest in improved Merino and Deer of pure-bred Hampshire swine. Mr. into Michigan this year. They were laine blood. In fact, Texas is in a Espie has for a herd sire Advance Per- a fine bunch of nine-hundred-pound position to take all the good rams that fection, a grandson of Essig's Perfect feeders and showed excellent Short- that the Merino and Delaine breeders

> in his flock, but is avoiding the extremes, simply depending upon rams Hampshires. He says, "They are good IN addition to their general farming from the more heavily wrinkled types hogs, excellent rustlers and grazers, and feeding business, Bowditch & to maintain the density and weight of feed out well and make champion car. Son have a fine herd of Shorthorn cat-their fleeces. Most of his breeding casses; have big litters and furnish tle and a few Hampshire hogs. At the stock came from Staley's and Cleaver's

(Continued on page 646).

News of the Agricultural Worl

WHAT THE STATE FARM BUREAU vice organization, ready to assist in of the live stock marketing "Commit-group of farm bureaus were holding a IS DOING.

Cooperative Association of Harbor the organization. Beach, and the Elkton Farmers' Ele-

ed the figure thirty-one in the number and special utility and at the same of County Farm Bureau seed depart- time enjoy the support of the pooled ments which have made an agreement power of all farmers' organizations. with the state department to do all of The paid men who are maintained in their business through the one chan-practically every county will be able nel. The department did a relatively to assist in the proper development of large amount of business this last these other organizations and each will week in clover seed.

a number of shippers use box cars.

Seed and purchasing departments bers. did \$100,000 worth of business last

bers to date and a possibility of 7,500 buying of many items through the when completed entirely. Ontonagon state organization. The most effective county has asked for a membership way to handle the purchasing operacampaign next summer. The percent- tions is through the local units, alage of farmers joining as compared though these may deal in turn through with the number visited is higher in the state agency. the upper peninsula than in the lower part of the state.

OWNERSHIP OF STOCK YARDS.

that organized agriculture should be tent. given a chance to express itself.

that the membership of the farm but the federation to work out a suitable president; R. G. Potts, vice-president; markets show similar curtailment. reaus is made up of all classes of farm- program. It was indicated that the James Nicol, A. M. Berridge and A. J. Kansas City's October run being 50 ers, including members of most all oth- question might be taken up by constit- Rogers, Jr. er farm organizations. There was a uent states and by the milk conference. During the session a telegram was years. These figures suggest that suptrend toward the idea that the farm Mr. Coverdale also said President received from Columbus, Ohio, where plies outside the corn belt have been

the working out of problems of any tee of Fifteen" early next week.

Secretary Murray D. Lincoln, of the vator Company. In the three weeks Ohio Farm Bureau Federation, discuss-MICHIGAN PRODUCTS AT INTERthat the elevator exchange has been ed uniformity of organization among organized it has handled twenty-nine the State Farm Bureaus. He pointed cars of hay, four cars of bran, four out the smoothly working relations of teen cars of wheat, six cars of rye, the federation and the Grange in Ohio two cars of oats, seven cars of beans, and presented a scheme by which all one car of feed and five cars of corn. farmers' organizations could function The seed department has also reach- so as to maintain their individuality thus be benefited by the farm bureau. C. D. Potter, well known for fifteen The scheme that he presented advocatyears for his successful work in pur- ed the State Farm Bureau fathering chasing in Michigan has become as- the business organizations of the grain, sistant in the purchasing department. fruit, vegetable, dairy, live stock and The traffic department is flooded with wool interests, but each special organrequests for refrigerator cars. It re- ization would still operate in the interrefrigerators in the country but that Bureau Federation would maintain legthe State Farm Bureau is getting its al, statistical, publicity and legislative dividual as well as organization mem-

Inasmuch as a great many farm orthe other half was made up of pur operations he advised not to expect too the Michigan Farm Bureau and the tion. chases of bran, middlings, coal, and much of the cooperative buying depart. Michigan Crop Improvement Associaflour by the purchasing department. ment. In fact, it developed that with tion, Upper peninsula membership cam- the exception of Michigan none of the paigns are concluding with 6,462 mem. states are attempting to do extensive

It was agreed that all of the states could not operate on the same basis on account of varying conditions.

There was an extended discussion of the advisability of publishing an official paper or magazine by the state THE presidents and secretaries of and national organization. The dangmiddle west State Farm Bureau ers and objections to maintaining an Federations, meeting at Columbus, organization publication were so nu-Ohio, November 9-10, asked the Wash-merous and so logical that it would not ington office of the American Farm be wise to attempt it. In some of the Bureau Federation to convey the mes- states a small folder is sent out to the sage to the department of justice not to members each month but even that accept any proposal of the present involves quite a heavy expense. Even

Informal discussion of dairymen's tablishment of a dairy department. competition. The form of organization and how and milk producers' problems took The Michigan State Farm Bureau - Chicago receipts of cattle during Oc-

ican Farm Bureau Federations.

NATIONAL.

C AN the farmers of Michigan surexhibiting Red Rock wheat and Rosen immune in the practice of collective rye they captured the lion's share of action, and carries its own cure from prizes at the International Hay and oppressiveness by increased products. Grain Show held in Chicago?

this fall.

COMMITTEE MEETS.

annual meeting of county delegates in the general inadequacy of much of the February by the appointment of A. M. instruction of agricultural courses in Berridge, of Greenville, and Secretary economics. Bingham, as a committee to prepare a program. The executive committee FRUIT GROWERS HOLD ANNUAL voted a formal invitation to Secretary Meredith, of the United States Department of Agriculture, to be present and speak at that meeting, and instructed prepared for the fiftieth annual meetthe committee to send that formal in- ing of the Michigan State Horticultural vitation to Secretary Meredith.

dressed a letter to the executive com- will be published later. owners of the stock yards in regard to the state publication that carries ad. mittee asking that the State Farm Buchange of ownership of the yards until vertising loses money to the farm bu. reau officially help the dairymen in CATTLE DECLINE ON LIGHT RUNS. the farmers' live stock committee of reau federation and the publicity that their problems, appeared before this fifteen has had a chance to study the it carries is no more effective than if last meeting upon invitation. Fred Hilsituation and state intelligently the po- it cultivated the support of the regular bert, their leader, presented the posisition of producers. Live stock pro- farm press. It was generally agreed tion of the dairymen of Allegan county. dressed beef market, prices on beef ducers have not been consulted by the that it was far better to secure proper The executive committee referred the steers were slumpy and show losses department of justice. When present publicity through the regularly estab. tentative plan of the Allegan county compared with a week ago. Supplies negotiations are effected, the owner-lished farm papers, even though these dairymen to a committee consisting of were very light at first, due probably ship will probably remain the same for papers might assume a critical atti- R. G. Potts, vice-president of the State to the election, and a sharp advance many years. The middle west farm tude from time to time. The farm press Farm Bureau and a dairyman himself, occurred, but with heavier runs later bureaus feel that it is a question in is favorable to the farm bureau and and Secretary Bingham, with the view this bloom speedily faded. The top which producers are vitally concerned, whatever is said for or against its ac- of calling together farm bureau mem- still hovers and for this reason it appears to them tivities is usually said with good in- bers interested in the production of and calves advanced, both of them dairy products, looking toward the es- feeling less pressure from western

bureau should be a promotion and ser- Howard would announce the personnel delegates from the middle western fairly well cleaned up.

conference, stating the Michigan State particular group of farmers. Most state The conference voted to recommend Farm Bureaus' apportionment in the RGANIZATION of the elevator ex- organizations are working along this to the states the organization of live expenses of the farmers' national grain change department of the State line. Few organizations are in actual stock shipping assolations on the marketing "Committee of Seventeen." Farm Bureau proceeds rapidly. It is business for themselves. In discussing county basis. Delegates visited Ohio The executive committee allowed the now composed of thirty-one coopera- publicity problems, it was brought out State University at the lunch hour, apportionment and wired back its antive associations and elevators. The that an important part of the work is Dean Alfred Vivian declared the uni- swer within fifteen minutes. Though last three to join are the Port Hope to inform and educate the membership versity was giving the strongest possi- Michigan is not one of the big grain Cooperative Association, the Farmers' and public with regard to the work of ble endorsement to the Ohio and Amer- producing states it stands solidly behind the national program for bettering grain marketing conditions.

WHO SHALL CONTROL PRICES?

(Continued from page 623). pass their feat of last year when is fundamental. The latter form is now

Agriculture asks no special favors to At any rate they are going to try, do what other industries cannot do, Well over one hundred entries for this and should assert the same powers as year's show, to be held from Novem- others in the right of interpretation ber 27 to December 4, already have and regulation of supply and demand. been received by the farm crops de- Agriculture should also resist being partment at M. A. C., and more are longer subjective and devise a method arriving daily. The quality of the ex- of being self-serviceable without ophibits is unusually high, according to pression. This would allow the elimiexperts at the college, and therefore nation of the unfayorable and ineffian even better showing is looked for cient and prevent the exploitation of the farmer's family and his unpaid for The hay and grain show, inaugurated overtime in competition with this class ports that there are very few available est of its special line. The State Farm last year, is held in connection with which now exists and persists. This the famous International Live Stock can be done at even a price advantage Exposition and attracts entries from to other industries when measured ovshare. It is going to be necessary that departments which would serve all in. the entire United States and Canada, er a period of years. When farm prod-To advertise Michigan crops to lead- ucts are scarce the extreme high prices ing farmers of other sections an exten- do not measure the cost for that year sive display exhibit is being prepared alone, but include the wastage and loss week. Half of which was in a sale of ganizations in the past have been for the show by M. A. C., with the co- of the machinery of operations when clover seed by the seed department; wrecked on the rocks of commercial operation of the seed department of prices were below the cost of produc-

When an economic and legal right exists as is the case now, the planning of the machinery for agriculture's par-STATE FARM BUREAU EXECUTIVE and demand and establishing its equalticipation in interpretation of supply ity of plane with other industries is not difficult. Economics is simply a HE executive committee of the matter of correct relations between in-State Farm Bureau, in session No-dustries. These relations are not now vember 8-9, began preparations for the economical as to agriculture, hence

MEETING.

An unusually good program is being Society to be held at the Pantlind Ho-A committee of dairymen from Alle- tel, Grand Rapids, November 30 to Degan county, who a month ago had ad-cember 2. Program and further details

NOTWITHSTANDING the light receipts and a firm and higher

the State Farm Bureau Federations most of the second day's program. J. will be represented at the annual contober show a sharp reduction comparshould work was a subject of discus- W. Coverdale, Chicago, secretary of vention of the American Farm Bureau ed with a year ago. The western run sion at the meeting of the presidents the American Farm Bureau Federa- Federation at Indianapolis, December at Chicago for the season is under and secretaries of middle west State tion, said a conference of dairy and 6-7-8, by the following members of the 200,000, compared with 350,000 head in Farm Bureaus. It was brought out milk men shortly would be called by executive committee: Roland Morrill, 1919 and 325,000 in 1918. Other large

the best for the month in twenty-three

Establishing Prices on Farm Products

The Part Taken by Pacific Coast Farmers in This Important Matter

By Herman Steen (Copyright 1920, Standard Farm Papers, Inc.)

prices of their own products, but that practices. the farmers in each farm industry join directors of his cooperative marketing like to know one good reason why we force in that market." association, and this board of direct shouldn't name the price we receive members of the organization.

Two Plans of Determining Prices.

Coast cooperative organizations. The first is that used by the prune and apricot, almond, raisin and other associaproducts controlled by the association. same answer to the same question as of the associations. It is also able to of prunes. This scale of prices usually prevails did Giffin, and added, "Now don't ever tell, though with somewhat less acfor an entire season or year, but may get the idea that we fix an arbitrary curacy, how much fruit will be producbe changed at any time by the respon- scale of prices on prunes and apricots, ed by non-members. By keeping in a scale of prices which is their judgsible heads of the organization.

The other method of determining about the size of the cropy the process is that used by the citrus and ble domestic demand, probable foreign to be marketed from those states can sion reached after careful, businessegg associations. It depends primarily upon wide and efficient distribution of products, and upon their distribution as evenly as possible throughout the entire marketing season. These organizations do not fix a schedule of prices, but accept those prevailing when their products reach the market. Their control over prices is exercised by even, efficient distribution and by withholding shipments in extreme cases, rather than by fixing prices.

Two Roads to the Same Place.

Cooperative leaders on the Pacific Coast are divided into two camps over the relative merits of these two methods of determining primes. Advocates of the first plan assert that every producer has the right to name the price which he will take for his product, and that the plan of price-fixing by the association is the most feasible and practical method of achieving that result. Advocates of the second plan say with more or less firmness that they do not believe in price-fixing, and that prices on all products should be "determined by supply and demand."

surface, and that the two methods that reach the same town. This opin- other perishable products. the members of the ion is shared by which system of arriving at prices is gle month. followed. The producers' association dominates the market in either case, \$23,000 worth of business in one month, background.

no pretence of concealing the fact that market. The following table shows this livered at the market.

ALIFORNIA farmers themselves their organizations fix a scale of prices demand, probable competition from be estimated in advance. Special repthe markets of the world, instead of let- each of these three organizations, have business conditions. industries whose products they handle, the directors. I mention these facts be too high, or consumers will refuse country in the world. The reader will understand that in- to point out that the California cooper- to buy. We would be poor business dividual farmers do not control the atives do not follow any dark lantern men if our prices were made too low,

Obeying the Law of Supply and Demand.

The other method of determining about the size of the crop, the probation associations, the amount of fruit

largely determine the prices at for the products of their members. On other nations, probable competition resentatives are maintained in the which their products sell upon the contrary, the board of directors, of from other fruits, and review general principal prune and apricot growing districts in the foreign countries which ting somebody else do that job for one meeting each year which it desig- "We then fix a scale of prices for produce those fruits to report on the them. This is one of the most con- nates as "price-fixing day," and any prunes and apricots which is our in- size of the crop there. When the board spicuous features of cooperation in member may attend the meeting. Wide terpretation of what we think the of directors of the organization meets California, and is the obvious result of publicity is given to the meeting, both world will pay for them. That price to fix prices, it has before it accurate the organization of cooperative asso- before and after, and the associations must not be too low, or the speculators figures and information regarding prociations large enough to dominate the publish the schedule of prices fixed by will grab up the supply; it must not duction in every prune and apricot

Naming the Price.

Manager Coykendall also brings in and would hurt ourselves more than all of the contracts he has made in ad-"Certainly we fix prices," said Wy- anybody else if we set our prices too vance for selling prunes. Last year together and act as a unit in this mat- lie Giffin, president of the California high. The law of supply and demand he had contracts for 110,000,000 pounds ter. The individual grower, as a mat- Associated Raisin Company, in reply operates freely in the prune and apri- or half of the crop, made before the ter of fact, has very little to say about to a direct question. "Why the deuce cot market today. It was usually man- price was fixed. These contracts were the price for his products; he does shouldn't we? We produce the crop ipulated beyond all recognition before good at the opening price fixed by the have a voice in selecting the board of and make it ready for market, and I'd our organization became the dominant board of directors. This helps to determine the probable demand for The method followed by the prune prunes. The sales manager also brings ors acts for all the producers who are for it. But remember this—we don't and apricot growers in fixing prices is in a hundred and one bits of informatry to force anybody to buy our rais- practically the same as that used by tion gathered from the wholesale and ins. We simply say, 'Here are our raisin and almond associations. Var- retail trade. A detailed report is also Two general methods of arriving at raisins, our price is such-and-such, ious departments of the organization brought in to show how much increase prices are followed by the Pacific take 'em or leave 'em.'" gather different kinds of information in consumption of prunes can be that is deemed necessary. One depart- brought about, by advertising. Other ment keeps in touch with the growers, facts are brought before the board H. G. Coykendall, general manager and is able to estimate in advance with regard to general business conditions, and is nothing more or less than of the California Prune and Apricot within one or two per cent of the total tions, transportation conditions, and naming a schedule of prices for the Growers, Inc., made substantially the volume of fruit produced by members every other thing that affects the price

The board of directors considers all of these things and then decides upon We get all the information we can touch with the Oregon and Washing-ment of what the prune crop is worth. The price is not a guess, but a conclulike study of the situation.

Another Method of Stabilizing.

The citrus growers, on the other hand, fix no scale of prices. They depend upon other means of stabilizing prices. First, they avoid any glut in the market by marketing their oranges and lemons evenly throughout the year -as nearly as possible, one-fifty-second of the crop every week. An even flow of product is thus maintained. which varies only slightly from day to day. The individual growers are not under contract to distribute their marketing, but have learned to do so from force of habit and the habit has been urged by the association for twenty years. The pooling plan, described in a recent issue, is of very direct aid in this matter, because it guarantees each grower the average price received for his crop-no less and no more-and there is no inducement for a man to try to hit the high market.

The citrus organization has its own representatives in every large city in now has a paid-in capital stock of ten Products Bought During October, 1920. formation they gather about markets the United States, and every bit of infor oranges and lemons is sent back to the central office in Los Angeles. Close touch is kept on the volume of oranges and lemons in every market, and shipments are diverted accordingly so that no city is glutted and no city is ever swept bare of citrus fruit. Some of the fruit is sold at auction. and some in carload lots to buyers. The sum and substance of all this is that the orange growers thoroughly dominate the orange market. If prices fall too low, shipments are stopped, so the growers' control over the market is practically as complete as is the prune and raisin growers' control over their markets, through out-and-out price fix-

The egg associations of San Francis-These products are all bought direct co and Los Angeles operate on a slightthe price remains high enough to suit

Commuity Market Grows



HE Community Market at Adrian and also the value of each of the varwas established in April, 1918. It ious lines purchased. It seems to me, however, that the thousand dollars. During the last year difference between the two methods of it has purchased the present occupied determining prices is mostly on the market building, and also the adjoining cold storage building, which has achieve the same general result. It is been put into use, especially now for a case of two roads of equal length the storage of potatoes, apples and

The accompanying cut shows the committee from the mid-west farm bu- market, with the new manager, L. H. reau federations which visited the Cal- Remus, in the foreground. Mr. Remus ifornia organization in August. The im- took charge of the market in April, portant thing to remember is that Cal- 1920. The following report will give ifornia farmers largely determine the the reader an idea of the amount of prices of their products, regardless of business done at the market for a sin-

The market has done as much as while speculators are relegated to the eggs being the largest purchase, namely, 34,617 dozen, costing \$14,791.48.

The community market buys every-The officers of the prune and apricot, thing and anything raised on the farm, from the farmer, for which he received by different basis. They sell eggs to almond and raisin associations make and at any time it is brought into the spot cash when the products were de- wholesalers and retailers as long as

Froducts bought burning October, 1920	
Products. Value	Э.
Apples, 1,575 bushhels\$1,223.4	1
Beans, 63 pounds 5.0	
Butter-fat, 906.1 pounds 473.5	9
Eggs, 4,530 dozen 2,778.8	
Case as 074	
Grapes, 974 pounds 40.1	
Hides 76.2	6
Honey, 840 pounds	0
Onions, 6,030 pounds 132.5	
Packing stock 8½ pounds 2.3	35
	~
Peaches, 60 bushels 83.5	6
Poultry, 14,372 pounds 3,267.93	1
Pop corn, 273 pounds 5.50	0
Potatoes, 36,480 pounds 510.63	
Pears, 339 pounds 233.6	
Plums, half-bushel	C
Quinces, half-bushel	5
Sorghum, 4½ gallons 6.50	0
Tallow, 87 pounds 1.7	
Wool tree	
Veal, two	
Vegetables 53.8	1
Vinegar, 50 gallons 11.70	0
	-

Total\$9,098.52

the growers; when prices are too low, suggest that price-fixing after all, is in saying that it should stay there. plus idea and fell back to the law of at a later time or ships them to New of conditions of supply and demand. question represents the viewpoint of was not so bad when the speculators

Both Methods Are Effective.

the price-fixing is direct, in the other to the junk heap. Every leader of co- pay more than half the cost of produc- been discarded because it has proved it is indirect. I therefore venture to operative organizations there is agreed tion. We quickly discarded the cost impractical.

the association packs the eggs for sale simply a relative term, an adjustment Wylie Giffin's philosophy on this supply and demand, which we found

Cost Plus Idea Discarded.

A careful analysis of the two meth- want to call it, it is highly interesting that one year our cost of production and demand." ods of determining prices shows that to note that no cooperative organiza- would be two cents per pound and the Summing up the methods of deterboth are very effective in stabilizing tion in California bases its prices on next year four cents per pound. It mining prices followed by California prices. There is so ilttle fluctuation the cost of production. It is true that was quite possible that when we could cooperatives it is well to remember in prices that it is hardly noticeable, most of them figure out occasionally produce raisins for two cents, we that the law of supply and demand pre-In either case, the growers thorough the cost of production of the crop they could sell them for four cents, and the vails, no matter whether prices are fixly dominate the market though the handle, but that is as far as they ever reverse would be true the next year. ed directly or fixed indirectly. Price fact that they operate as a unit, and let it go. Ten years or so ago it was The fellow who buys raisins doesn't fixing, then, becomes a relative term. because a large majority of them are the style in farmers' meetings on the care what it costs to produce them; Someone has to fix a price, and farmorganized to act together. In either Pacific Coast to argue for cost of pro- some years he will pay two or three ers are entitled to a voice in deciding case the law of supply and demand op- duction plus a fair profit for farm prod- times the cost of production and holler it. Remember also, that the cost of erates freely and fully. In one case ucts, but that idea has long since gone for more, and at another time won't production as the basis of prices, has

the cooperative leaders. "We used to were prevented from manipulating it. In connection with price fixing or talk about securing the cost of produc. We fix prices, but the prices we fix price determination, or whatever you tion for raisins," he said. "We found are determined by the law of supply

Congressional Committees Are Busy

Several Important Agricultural Measures Will be Given Early Consideration

begin the hearings by the middle of the farmers.

last spring requiring that all appropri- tariff during the summer vacation. A are united in the belief that it will be wool, another to dairy products, and house appropriations committee.

able that only on account of absolute and 1913. necessity will increased appropriations be granted for any object. Treasury reports show that government revetures for non-essentials.

The wheat and cotton growers, despairing of getting financial relief from the secretary of the treasury or federal reserve board, will turn their attention to congress for relief. The farmer representatives will hold a series of conferences for the purpose of developing a definite legislative program. They will ask for amendments to the federal reserve act, providing for extension of credits, and it is expected that long drawn out hearings will be held before the agricultural and banking committees on the proposed amendments.

can platform. This is interpreted as together to their mutual advantage. prices were in an unstable condition ment stations, which will be loaned to signifying that the party leaders in L. C. Carey, formerly of the Michi- and in many instances lower than they good reliable dairymen on condition congress will be favorable to measures gan Fruit Growers' Exchange at Ben- were in surrounding cities. The farm that all their daughters be tested. which will give farmers better credit ton Harbor, has been selected as mar- bureau took the attitude that a market Many bird lovers from all parts of facilities. In its platform the domi- ket director, He plans to render the without a supervisor was worse than the country were in attendance at the nant party says it "believes in the double service of offering a cheaper no market at all. The chamber of thirty-eighth annual convention of the authorization of associations for the produce market for the hundred thou-commerce has assisted materially in American Ornithologists' Union, in extension of personal credits," is tak- sand inhabitants of Flint and at the publicity and preparation of public Washington, November 9-11. An interent to mean that some kind of rural same time raise and stabilize the pric- opinion. The market is expected to esting feature of the meeting was a personal credit legislation will be es which the farmers are receiving for bring about greater stability in the lo-special exhibit in the library of conenacted as soon as congress can get their produce in that vicinity. The cal markets, not only of vegetables, gress of a large collection of zoological down to business. The platform state- city council of Flint voted \$40,000 two but of hay, straw and grain. The first illustrations, showing their development that "the federal farm loan act years ago to this project. That was day of the market brought forth only ments as applied to birds, and original should be so administered as to facili- during the war. A great many per- a few rigs, but fifteen hundred citizens drawings and photographs of birds by tate the acquisition of farm land by sons were in favor of bringing the pro- assembled and all produce moved read- American artists and photographers. those desiring to become owners, and ducer and the consumer as close to ily except apples and potatoes.

Formerly the agricultural committee taken up early in the coming session. loans direct through agents of their the purpose of the new department to had charge of the appropriatios for The committee on ways and means, of own choosing. agriculture, the military committee for which Representative Joseph W. Fordthe army appropriations, and so on; ney, of Michigan, is chairman, has all agreed as to the best method of erly advised. It is probable that one but a change was made in the rules been doing considerable work on the helping the farm loan system, but all man will give his entire attention to ations measures be considered by the large volume has been prepared and necessary for the farmers to put up a so on. just received from the printer, giving strong fight if the federal farm loan Large increases will be demanded a comprehensive summary of tariff in- act is to be retained and made effectby several departments, but it is prob. formation, including the acts of 1909 ive. Promoters of the movement to

nues from customs are increasing, but er do away with the federal farm loan ter in which he says: "I am in hearty the latest figures indicate this year's system or secure the enactment of sympathy with this movement. I begovernment revenues are falling be. amendments which will make its oper-lieve that it is time that the various low last year's receipts. In line with ation ineffective in meeting the long- farm loan associations should organize the necessity for economy, it is inevit. term credit needs of the farmers. The for self-protection." United States Senable that the house appropriations farm mortgage bankers, it is said, are ator Robert L Owen, of Oklahema, who committee will cut down estimates and backing this fight against the farm was chairman of the senate committee it will be the work of the farm organ. loan act. Their representatives are al- on banking and commerce which framization representatives to prevent if ready in Washington preparing for the ed the farm loan act, has agreed to possible, the crippling of any depart- campaign. The first move will be made accept the chairmanship of an advisment activity that may be needed for against the joint stock land banks. If ory committee to assist in the organthe protection of agriculture, and also successful in destroying this feature izing of the National Union of Farm to protest against needless expendi. of the farm loan system the federal Loan Associations. farm loan association will be proceeded against.

At a conference of farmer organiza-

LTHOUGH congress will not con- thus minimize the evils of farm ten- of the bureau of farm management, tion will soon appoint at the head of vent for its winter session until antry, and to furnish long-time credits stated that "Commissioner Lobdell its department of cooperation a secreearly in December, the various as farmers may need to finance ade- told me he was not in favor of nation- tary of marketing, who will make a executive departments are busily at quately their larger and long-time pro- al farm loan associations." It was also study of all the various phases of cowork preparing estimates for appropriduction operations," also stimulates charged that the board favored the operative marketing and give his asations for the next fiscal year, and the confidence that the farm loan system Smoot bill to eliminate joint stock sistance to all marketing projects. The house appropriations committee will will be made more effective in aiding land banks. The farm loan board, it wool pools are now acting independ-Tariff revision legislation will be twelve land banks, having them make ative unity between them. It will be

organize the four thousand farm loan associations into a national union re-T is evident that an attempt will be ported some progress. Senator Arthur made when congress meets to eith- Capper, of Kansas, has written a let-

PRESIDENT J. R. HOWARD, American Farm Bureau Federation, while tion representatives, a few days ago, at the Washington headquarters, a few Judge Charles E. Lobdell, a member of days ago, said the big thing in the the federal farm loan board, was quot- middle west just now is the developed as being opposed to the farm loan ment of cooperative organizations. act. Dr. W. J. Spillman, formerly chief, The American Farm Bureau Federa-

was asserted, would continue the ently. There is no medium of coopercorrelate these cooperative marketing The farmer representatives are not movements and see that they are prop-

> THE committee of seventeen is func-THE committee of several trial of different farm organizations with diverse ideas then have gotten together on common ground, with great confidence that something of real worth will be accomplished in the development of a satisfactory marketing plan. There is no thought of impossibilities in their task, no manifestation of selfishness on the part of any one. The committee has adjourned to meet on December 13. It has been voted to raise a fund of \$50,000 for investigation in marketing and research work.

According to Mr. Howard, North Dakota is pushing to the front as a farm bureau state. Enough farm bureaus have been organized to start a state federation, and a drive was put on this week, which promises to put North Dakota nearer one hundred per cent farm bureau membership than any other state. In Nebraska the Farm Bureau Federation and Farmers' Unions are making drives for membership, working harmoniously in the same counties, and their greatest gains are in sections where the non-partisan league is strongest. Reports indicate that ninety per cent of the farmers in Nebraska are joining the farm bureaus.

breeding experiments at Beltsville,

Flint's Municipal Market

It is confidently expected that the the cooperation of the city council, the lack of knowledge of just how to bring of Agriculture, who is in charge of the party soon coming into power will be chamber of commerce, and the Gene- about a successful market. very considerate of the farmer's needs see County Farm Bureau. This is the After the County Farm Bureau had Maryland, states that in the developand demands. "The crux of the pres- first of many other city markets which become thoroughly established it took ment of the breeding work at Beltsville ent agricultural condition lies in pric- are expected to follow, where the an interest in the proposal to estab- they have a number of surplus bulls es, labor and credit," says the republi- farmer and the city resident can work lish a produce market because market in addition

A MUNICIPAL market has been gether as possible, but in addition to Professor Graves, of the Dairy Divistanted at Flint, Michigan, through some opposition there was a general sion of the United States Department

STANDARD PRACTICE

The use of Timken Tapered Roller Bearings at points of hard service in the great majority of leading tractors— and in power-driven farm machinery— is proof of leadership established on the tapered principle of design, qual-ity of manufacture, performance, and

of manufacture, performance, and rice to the automotive industry.

STORING APPLES.

I have several hundred bushels of choice winter apples that I would like to put into storage until I can find time to haul them to the city or ship them from our station. Would you advise me to put them in cold storage at our local shipping station or send them to some storage house in one of the larger cities?

Oakland Co. It is rather difficult to advise you

which would prove the better method of handling your apples. A good plan would be to make a careful study of your local storage plant before deciding whether to use it or send the fruit to the city. One of the points to consider is the temperature of the storage house and the condition of the fruit when it gets there.

A report of extensive apple storage investigations made at the Iowa Agricultural Experiment Station shows that temperature is a very important factor in the control of apple scale and other more common diseases of apples in storage. A constant storage temperature of not more than thirty-two degrees F. has given the best control of these diseases, according to a bulletin issued by the agricultural college at Ames. It is concluded, however, says the author of the bulletin, that the losses in storage from apple rots may be practically eliminated by proper spraying, harvesting, handling, grading and packing of the fruit, keeping it at a constant low temperature and removing it from storage before the storage season for the particular variety in question closes. No correlation was found between the size of the apples and the amount of scald developing on them in storage, but the largest apples were generally attacked more quickly by rots in storage than smaller apples of the same variety, other things being equal. Apple scald makes fruit more susceptible to the entrance of rot fungi. Alternario rot, which is a black fungus growth, develops readily on the badly scalded portions of the fruit and hastens decay. The author has had under observation an unidentified dry brown rot, which appeared on both Jonathan and Northwestern Greening apples, developing sunken areas in which the skin becomes a clear brown color, varying from a medium to a rather light tone and remains unbroken. The flesh beneath becomes dry and brown, or brownish, to a depth of 0.125 to 0.25 inch. All attempts to isolate a causal parasitic or saprophytic organism from the affected tissues have thus far failed.

Effect of Humidity.

Humidity was found to bear some relation to the development of apple scald, but was less important than temperature. Less scald developed in a relative humidity of from sixty to seventy per cent than in one of from eighty to ninety per cent. Wrapping apples in paper delayed the appearance of scald during storage. Paraffin paper retarded scald more than ordinary wrapping paper, but the difference was too slight to be of commercial importance. Immature fruit scalded readily in storage. Whatever the variety of apples under consideration it is in the best condition for cold storage when it is well colored and hard ripe. If the fruit must be picked early to avoid freezes it may be held at ordinary temperatures until it more nearly reaches the best degree of maturity for cold storing. Apples in prime maturity for cold storing will scald more quickly in common than in cold

Advantage of Wrapping.

Observations on temperature changes in cold storage showed that it requires thirty to sixty hours to reduce the temperature of fruit in the center of a box or barrel from a temperature around seventy degrees down to thirty-

(Continued on page 633).

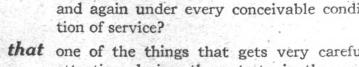
Do You Know-

that most of the tractors now on the market have been tested for seasons before they were offered to the farm public?

that in the course of these tests the machine has been called upon to prove itself time and again under every conceivable condition of service?

that one of the things that gets very careful attention during these tests is the performance of the bearings?

that the result of tests of this kind is the rapidly increasing use of Timken Tapered Roller Bearings by the tractor-making industry?



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gricultural Activities in Cloverland

OOPERATION among the farmers of the upper peninsula is pretty common. It comes quite easy to the Finns and other recent following results: Chippewa, 1250; to the county agricultural agent. The ers' market at the Soo. was found to be two hundred and forty- county is now being canvassed. five. The total capitalization of \$559,500 owned. There was a nominal rate of ar beets in the upper peninsula. basis of purchases by members. Some 220,000 acres of farm land, according of fresh meat, and reminds the county of the material necessary to make the as great dividends to non-members as to members. Some stores give employes the same dividend on salary as patrons obtain on purchases. This is said to make employes more careful and conscientious.

Farm Bureau Membership Grows. A recent compilation of the number of members of the State Farm Bureau in upper peninsula counties shows the

By L. A. Chase

European stocks—more easily than to Menominee, 1,150; Delta, 1,002; Mar-number of improved acres is put at the native Americans. An investiga- quette, 505; Luce, 288; Schoolcraft, 84,000, and the number of farmers at plied with game is indicated by the retion recently carried on by J. W. Wes- 264; but this list is incomplete as sev- eighteen hundred. The estimated val- port of the county clerk of Marquette ton, assistant state leader of county eral other upper peninsula counties ue of farms is \$10,000,000. Mr. Kirsh county in relation to bounties paid by agents in the upper peninsula, brings have finished their membership cam- man reports that ninety-five per cent his office during the past year. These out the fact that there are thirty-eight paigns. In Gogebic county one solicitor of the farmers in Menominee county amounted to \$6,825 for the year ending cooperative stores in the northern per reported three hundred and ten signed own their own farms and that tenantry September 30. These were paid on ninsula, of which twenty-six were visit- up out of three hundred and forty-nine is not increasing. Mike Gardner, of woodchucks, weasels, rats, crows, owls ed for the purpose of this investiga- solicited, reports the State Farm Bu- Stephenson, expects this season to net and hawks, and \$3,156 on big game tion. These stores were found to be reau, while Iron county's membership \$2,500 from an eighth of an acre of wolves, wildcats, lynxes, and foxes. operating under various state laws ap- will exceed four hundred. In two town- golden seal which he planted: It is Seven thousand eight hundred and fifplicable in such cases. The average ships, it is reported, every farmer grown from seed and takes four years ty-five rats were brought in, with woodnumber of members of these stores solicited joined the bureau. Alger to mature, It is a medicinal plant. chucks second on the list (7,516); 2,829

puted to be \$4,782,478. The overhead Two townships are buying a car of the state, is now under way. expenses average 10.01 per cent, vary-rock phosphate. Menominee county ing from five per cent to fifteen per farmers are said to be greatly dissat-

—an average of \$20,000 per store. The Menominee county, announces a ship- the road commissioners know how to bounties. total paid-in- capital was ascertained to ment of a carload of twenty-nine head handle it. The Keweenaw county road be \$212,418—an average of \$8,850 per of cattle to Chicago, the estimated sav- commission is reported already to have teen smaller ones were produced in store. Total sales amounted to \$3,821, ing being \$220 over local prices. This got its equipment ready for the work one hill from one seed potato on the 158 for twenty-four stores. The average shipment is also said to have stimu- that is ahead. All trunk-lines and mail farm of Robert Blemhuber, near Maryearly business amounted to \$125,881. lated local prices, thus benefiting otheroutes in the county are to be kept quaette this season. The total weight The turnover of sales was 14.2 per er farmers not directly concerned with open by using a plow and roller drawn of these potatoes was thirty-two pounds cent of the paid in capital per year. this transaction. Several other town- by a caterpillar tractor, which proved and the top weighed six pounds. The The average sales per store on the ship locals have ordered feed in car- very successful last season. The work potato was a "volunteer," having been basis of the total number of these load lots, which will be sidetracked at of widening the Copper Harbor road overlooked in the fall digging a year stores in the upper peninsula was com- Stephenson on the C. & N. W. R. R. -one of the most scenic highways in ago. These statements have been ver-

Will Introduce Mixed Farming.

cent. Only one cooperative store was isfied with the potato market, with pewa county to be a one-crop (hay) State Farm Bureau. His phenomenal found to have failed—that at Iron Riv- sales made locally at sixty to seventy county. The Sault Ste. Marie Civic hill of potatoes will be sent to the er, which had been burned and appear- cents. Farmers, of course, should not and Commercial Association has been Michigan Agricultural College. ed not to have been sufficiently cover- expect the farm bureau to perform taking stock of the situation and is can beat it? A portion of Mr. Blemed by insurance, it is stated. Four miracles. It is a business proposition strongly advocating that intensive huber's crop is running at over six hunstores were listed as cooperative stock and people who go into business must farming, in the form of truck-garden dred bushels per acre. company stores where the shares were be prepared to take losses as well as ing, be more generally adopted in the not limited to members and the vote gains. Menominee county was one of county. It points out that figures fur- launching of a new industry in that was based on the number of shares the counties represented at the recent nished by the South Shore Railroad place, which will manufacture an allheld and not on membership. The reconference of sugar beet growers held show that there were received during service motor truck body. Its feature mainder allowed one vote per member at Lansing. Menominee and Delta the year August 1, 1919, to August 1, is said to be the Crandall hinge which regardless of the number of shares counties are the only ones raising sug- 1920, forty-two carloads of fresh veg- makes it possible for either side of the etables, one hundred and fifty-three truck to be placed at an angle. The interest on stock, usually five or six Menominee county, with a total area cars of fresh milk, twelve cars of eggs, Truck is designed especially for farm per cent. Profits are divided on the of 670,279 acres, has approximately and one hundred and sixty-seven cars use. It is said that eighty-five per cent

that much of this could well be grown at home. The Commercial Association proposes the establishment of a farm-

Although the upper peninsula has weasels suffered the same fate; eighty-County Agent Irving Kirshman, of plenty of snow in the winter season, four wolves cost the county \$2,940 in

> Fifty marketable potatoes and fifified by County Agricultural Agent, L. R. Walker. Mr. Blemhuber is upper There has been a tendency for Chip- peninsula director of the Michigan

The Calumet News announces the truck, and labor, are at hand in the copper country.

The four-mile stretch of federal aided road on the state trunk-line between L'Anse and Baraga has been completed by the contractors, announces the L'Anse Sentinel. This is a very important road for it gives access to the copper country from outside points. The remaining sections of this high-



Should Get More Service From Wire Fencing Advises That We Standardize the Galvanizing of All Woven Wire Fencing Sold in Michigan

yet are not practical, and an era vanizing is our plea. of woven wire fencing is now inaugur- Scientific investigation and practical contains eight parcels of eighty acres fence can be twenty years instead of ated. To show the great importance observation shows that adequate galeach. On each eighty acres there is ten, it would be as money at ten per

average life is but about ten to twelve years to come. years or about one-half the endurance The conclusion is that the galvaniz- rods. of a good wooden post.

and fencing (not including the posts) ed by law the same as fertilizers, food- will throw in for good measure all bined farmers of the state can afford a dollar per rod and must repeat the stuffs and some other articles of use, the territory above Antrim and all of to go into the contest. A formal call process every ten years, it makes him Experience shows that this is the only the upper peninsula. Thus we will say is in process for a meeting of reprebegin to investigate as to cause and a way to relieve farmers of the great there is a total of 207,862,080 rods of sentatives for the farmers' organiza-

HE days of wood fences are now the bottom of it all, and regarding the worth while, you ask? Here are some sive of cost of posts equals \$207,recorded as history. Hedges as remedy, insistence upon adequate gal-figures:

in farm economics of fencing we have vanizing is both possible and practical. an average of 800 rods of fencing, plus cent doubling every ten years. Obserbut to note the geographical position One of the simplest and plainest of the extra on account of highways, mak-vation, however, and expert testimony of our state in the midst of what we proofs may be seen in many lines of ing 7,400 rods of fencing for each sec- proves that thirty to fifty years for may term the mixed farming section fencing where one or two bright tion of land. smooth wires may be traced for a long Mixed farming with live stock calls distance along in the mesh of the wire, sections and 253,440 rods of fencing. able expectancy. From this an imfor comparatively small fields with while the main body of the fence is lanes and considerable small inclos- rusted out and in a badly broken up There are 672 townships in the south. mense saving in farm up-keep becomes ures. In fact, fencing now constitutes condition. The bright smooth wires ern peninsula below a line across even apparent. one of the largest items of expense in carry a sufficient coating of galvaniz- with southern Midland county, and farm up-keep. It is therefore of much ing to protect them, and if all of the proximately 170,311,680 rods of fenc. the state this proposition: Is it not concern to the farmer as to minimum wires had been equally well protected, ing. Then add the territory above worth while to demand of the next legcost and maintenance. As it is, wov- the whole of the fence would be in Midland up to the south side of Antrim islature a law standardizing the galen wire fencing falls far short of rea- good condition and in form to save at one-half the above basis, and we vanizing of wire fencing sold within sonable expectancy in endurance. Its both labor and money cost for many have 37,550,400 rods of fencing to add, the state? In the enactment of such

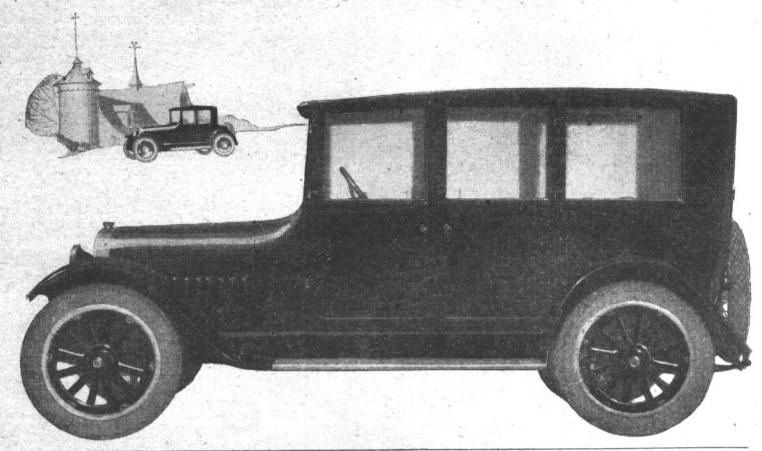
ing of woven wire fencing should be

the life of a well galvanized wire fence

and which equals in all 207,862,080 a law we must expect strong opposition from the combined fence manu-This computation is fair, but to al- facturers of the country, but being When the farmer invests in labor standardized and the sale of it regulat- low for cities, lakes and open lands we backed by reason and justice, the compossible remedy. Regarding the cause, and extortionate cost of poor galvan- fencing in Michigan. This at a nomi- tions of the state to give form and imit is plain that poor galvanizing is at izing and shortlived fencing. Is it nal cost of one dollar per rod exclu- petus to the campaign.—G. B. H.



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BAYER-TABLETS

Our Service Department

I intend putting out an acre of strawberries. How many will it take for the acre? What are the best varieties, and when is the best time to set them out, give him right to half of the straw if spring or fall? Where can I get the no special provision were made forbid-plants, the nearest home, and about what will they cost per hundred?

Westford Co. Wexford Co.

You can set strawberry plants either in the fall or spring. Ordinarily spring setting is preferable. However, if you are anxious to get the bed started you can set them this fall, preferably as early as the soil conditions are fav-

Strawberry plants will not do well unless the soil is moist at the time of setting. Fall-set plants will bear a light crop the season following. Springset plants will give a good crop the next year. One of the precautions to take in connection with the setting of strawberries in the spring is to have them in early.

been difficult to get strawberry plants ing worked out? from different nurserymen at the proper time for setting. This has been owing to a lack of labor in the nurseries and to the poor transportation. Would advise you, therefore, to try and get your plants of someone as near your place as possible. Perhaps your county agent can locate a grower in your county who could furnish you with these plants. If not, send to the nearest nursery which can furnish them.

Strawberries set three feet eight inches by one and a half feet, which is a common distance of spacing will require 7,920 plants per acre. The price of strawberries varies somewhat with different varieties, running from \$6.00 to \$9.00 per thousand.

One of the most commonly planted commercial sorts is Senator Dunlap. SOWING FERTILIZER BROADCAST. planted with it as it is what is known planted with it as it is what is known

This year I sowed my fertilizer as a perfect flowering variety. Anoth- broadcast and worked it in with a disc er newer variety which is very similar about a week before sowing wheat. to the Senator Dunlap in that the fruit is dark in color and the plants prolific, is Dr. Burrill. A good late sort is an sowed with the wheat. J. B. S. old variety called Gandy. Another variety which is taking its place in some rieties named are perfect flowering vaplanted with them. C. W. WAID.

BEANS FOR HOGS.

Is it safe to feed ground beans to S. G.

C. C. L.

RIGHTS OF RENTER.

I rented a farm on halves for four ears. This farm was sold last fall.

The rights of the tenant are entirely threshing test, however, tells a differdetermined by his lease. His rights ent story.

STARTING WITH STRAWBERRIES, against the buyer of the farm are no greater nor less than against the prior owner. An agreement that the tenant should have half of the crops would give him right to half of the straw if

FARM BUREAU PAINT.

Has the Michigan State Farm Bureau put men in the field to sell paint? We have been solicited by a party who declares he is acting as agent for the state organization. J. Q.

This person is a faker. The State Farm Bureau has no men out soliciting orders for paint. The organization warns farmers not to be imposed upon by parties who announce that they are farm bureau representatives. Report such men to your county agent.

SUGAR BEET PROGRAM.

Could you give me an idea as to the During the last year or two it has nature of the sugar beet program be-

Gratiot Co. The following general statement

will indicate the line along which the committee of five is working:

Plans for the formation of a sugar beet department of the Michigan State Farm Bureau which will represent the interests of the twelve thousand sugar beet growers of the state, most of whom are members of the farm bureau, are being perfected by a committee of five appointed by representatives of twenty-four counties. At a recent meeting of this committee, December 15 was set as the time for submitting of its report to the representatives of the sugar beet counties, when a plan of organizing the interests of the growers is expected to be adopted.

You probably used the best method possible in sowing your fertilizer and cases is Steven's Lake. All of the va- harrowing it in before you sowed the wheat. One of the prime requisites in rieties, thus need no other variety getting good results with fertilizer is proper distribution. It ought to be mixed thoroughly and evenly in the soil. The argument in favor of sowing fertilizer with combination fertilizer drill hogs? If so, state amount which may be fed daily. Also, is it better to give distribution. Of course, you do it at the beans mixed with ground oats or the same time you sow wheat, with rye?

S. G. very little expense, but that is the only very little expense. at time of sowing wheat is the cost of very little expense, but that is the only Ground beans are a splendid food argument that can be given in favor for hogs, but they should be cooked. of it. It is not the best method to put You can get along without grinding this fertilizer right in the drill with the beans by cooking them whole. The wheat and having it come in actual hogs will eat the beans better and contact with the kernels under certain make better growth if you cook them. conditions. It will often injure the It is always better to mix beans with germinating power of the seed, but some grain. Corn meal or ground bar- usually it is used in such small quanley are splendid to mix with beans, tities that no harm results. But when Cook the beans thoroughly. You can you sow the fertilizer while you are mix it half-and-half with ground barley preparing the land and then work it or corn meal and feed all the hogs will into the soil you ought to get the best Name "Bayer" identifies eat up clean and you will get splendid results. Possibly one thing, however, against this method is that it is more difficult to check up results since the fertilizer is evenly distributed all over. When you apply it with a drill you can shut the drill off, using no fertilizer years. This farm was sold last fall. I put in about fourteen acres of wheat last fall. I wish to know whether or there is marked results shown between not I am entitled to half the straw from this field, if the owner of the land does not reserve it. I would want to does not reserve it. I would want to That is the only reason why some peodraw my share of the straw away, if ple think you do not get good results I am entitled to it.—R. M. by your method of applying. The by your method of applying. The

C. C. L.

FARM BUREAU ACTIVITIES.

HE seed department of the Michigan State Farm Bureau is notifying the County Farm Bureaus that alfalfa did not set a good crop of seed in Montana and the Dakotas this year on account of excessive rains. This is the territory that grows what is called northwestern grown common. The State Farm Bureau has received orders from county seed departments for many bushels of this, but it may find it necessary to cut down some if the personal representative is not able to fill all the orders. The seed department will also handle some native Kansas seed, purchased under the personal supervision of the representative of that department who will see that only the best type of Kansas seed is secured. Price of all such seed is only approximately known. Clover seed is arriving at the Lansing warehouse in carload lots assigned by members for sale. So far it is mostly alsike, mammoth and sweet clover.

Two more cooperative associations have joined the elevator exchange. One is the Farmers' Elevator & Produce Company of Bad Axe, and the other is the Atwater Grain Company of Atwater. It seems probable that within the next few weeks the number of elevators in the exchange will be almost doubled. Some of the elevators are waiting for the perfection of the purchasing department of the State Farm Bureau, the full services of which each elevator in the exchange will receive. The purchasing department is already organized and is collecting orders for coal, tile, flour and feed. Due to light receipts and the presidential election the business of the exchange, like the business of most other grain companies, has been comparatively light for the last two weeks. The exchange is keeping its member associations informed daily as to market conditions by mailing a report which is prepared at the Lansing office immediately after the close of the board of control.

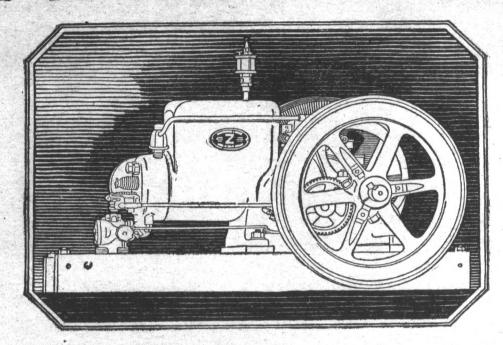
MICHIGAN SOIL SURVEYS.

I N recognition of the distinctive survey methods developed by the M. A. C. Department of Soils, Prof. M. M. McCool has been invited to address the next meeting of the recently organized National Association of Soil Workers, to be held in Chicago November 19-20. Michigan soils experts have led the entire country in certain fields of research in recent years, with investigations of soil temperature and moisture and the effect of different fertilizers on different types of soil in particular. The newly formed body is intended to promote an exchange of views by men of different sections and experts from every part of the United States will be present at the Chicago meeting.

STORING APPLES.

(Continued from page 629). five degrees, the temperature of apples in boxes being reduced sooner than that of apples in barrels. Unwrapped apples packed in boxes were more quickly affected by changes in storage temperatures than similar wrapped ap ples. Small changes in room temperatures do not materially change the temperature of fruit in the package, particularly of wrapped fruit. The author points out the importance of not exposing picked apples to the sun either in the orchard or in the packingshed, as they absorb considerable heat, and when first placed in cold storage, apples which have absorbed heat during the day do not cool off readily at night, even though the nights are comparatively cool. When the fruit is ready for storage it should be cooled to thirty-two degrees as quickly as possible.—C. B. F.

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The clean-cut business-like design of the "Z" Engine was not just accident. A farm engine, to be efficient, must be properly designed. The "Z" has graceful, natural lines—free from geegaws.

The parts are strong—weight where weight is needed. Strains foreseen—contact parts case hardened—all parts carefully, precisely made by accurate machine work.

Looks like a thoroughbred—is one. Delivers a steady flow of power—runs smoothly—operates economically. Correct design and precision methods give the "Z" its built-in quality. It is a mighty pleasing engine to look at.

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Let your nearby dealer show you why you should have a "Z."



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Full crown type. Enameled—not painted. Guaranteed to fit old irons and side shields perfectly. All holes properly drilled making them simple and easy to attach.

Your Money Back If Not Entirely Satisfied

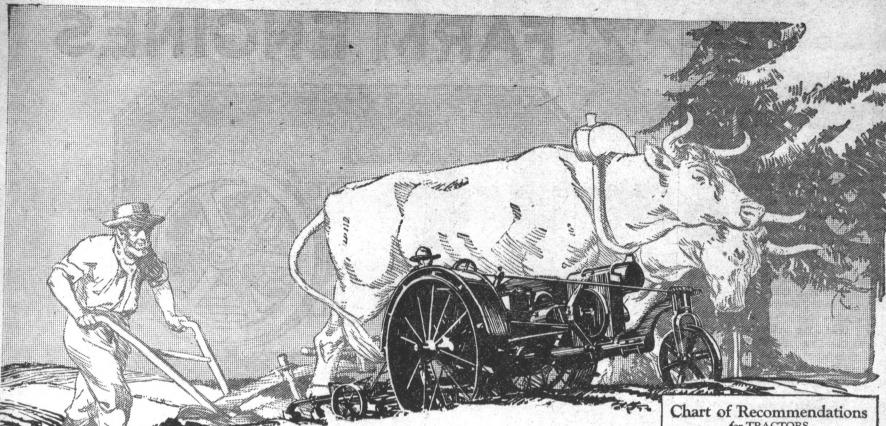
Complete set of four fenders for either Ford Touring Car or Roadster body—Only \$16.70 packed and crated, f. o. b. Factory. Write us.

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Mention The Michigan Farmer, When Writing Advertisers



The Farmer's Yearly Balance Sheet

National Interest demands that it show profits

IN 1830 ten hours of labor produced three bushels of grain. Today the same labor produces 60 bushels. The modern farmer more successfully combats insect blights, live stock diseases, soil conditions and in many cases even the elements.

This advance has been made at tremendous cost through research by the Department of Agriculture, Universities and other agencies supported by public funds because successful agriculture is vital to National prosperity. Only success can keep the best manhood on the farms.

In spite of improved methods, however, many farmers make only a "living" from their work. In many cases criminal waste is the cause. This waste is glaring in the case of farm machinery. Millions of dollars are lost yearly by farmers because machinery is not protected from the elements, and more important still, because it is inefficiently operated.

Prominent engineers agree that over 50% of

all engine troubles on tractors, trucks and automobiles are due to incorrect lubrication. Incorrect lubrication not only means repair expense, but excessive oil and fuel consumption,

frequent shutdowns and quick depreciation.

The Vacuum Oil Company has for years been recognized the world over as an authority on scientific lubrication. Gargoyle Mobiloils when used as specified in our Chart of Recommendation, have in hundreds of public and private tests shown a saving of oil from 50 to 70% and a fuel economy from 17 to 25%. Besides lower operating costs Gargoyle Mobiloils enable you to get engine results, which means more power, less trouble, less depreciation.

Farmers fully alive to this situation have increased their profits to an appreciable extent by the economies effected with scientific lubrication.

The Chart of Recommendations (shown in part on this page) specify exactly what grade of Gargoyle Mobiloils will give you best engine results from your auto, truck and tractor.

Gargoyle Mobiloils are put up in 1-and 5-gallon sealed cans, in 15-, 30- and 55-gallon steel drums, and in woodhalf-barrelsandbarrels.

> Write for "Correct Lubrication," a booklet containing complete automobile and tractor charts and other valuable data.

Mobiloils

A grade for each type of motor

In buying Gargoyle Mobiloils from your dealer, it is safest to purchase in original packages. Look for the red Gargoyle on the container.

VACUUM OIL COMPANY, New York, U. S. A.

Specialists in the manufacture of high-grade lubricants for every class of machinery. Obtainable everywhere in the world.

DOMESTIC BRANCHES:

New York Boston •

Philadelphia Pittsburgh

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Minneapolis Indianapolis

Kansas City, Kan. Des Moines

for TRACTORS
(Abbreviated Edition)

How to Read the Chart

THE correct grades of Gargoyle Mobiloils for tractor engine lubrication are specified in the

A means Gargoyle Mobiloil "A" B means Gargoyle Mobiloil "B"
BB means Gargoyle Mobiloil "BB"
Arc means Gargoyle Mobiloil Arctic

These recommendations cover all models of tractor

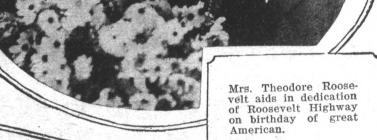
ess otherwise specified. Where different grades of Gargoyle Mobiloils are recommended for summer and winter use, the winter recommendations should be followed during the entire

period when freezing temperatures may be experienced.
This Chart is compiled by the Vacuum Oil Company's Board of Automotive Engineers, and constitutes a scientific guide to Correct Tractor Lubrication.

If your tractor is not listed in this partial chart, consult the Chart of Recommendations at your dealer's, or send, for booklet, "Correct Lubrication for Tractors," which lists the Correct Grades for all Tracto

WORLD EVENTS IN PICTURES





Due to the new women voters at the recent election it was necessary to increase the capacity of ballot boxes. In Jersey City ballot barrels were substituted.



Married sixty-seven years. Still happy.



A peculiar accident in which little other than the car fender was damaged.

Eight-year-old chess marvel who plays a number of games simultaneously.



Richard Washburn Child, lawyer and writer, who may be named secretary to President-elect Harding.



Firing a twelve-inch gun at Fort Hancock.



Little Surprise for Mabel

F you should ask anyone in Veronica who owned the best farm in that vicinity they would undoubtedly answer, "John Brown." And if you cared to listen they would tell you all about his one hundred and sixty acres of gently-rolling fertile soil equipped with fine buildings, good silos, new fences and the latest labor-saving devices known to modern agriculture. Ail

of which would be true.

Ever since he had married five years farming he had been quick to grasp shoulder and say, "Dear, don't you her. Why not move in all the furnineighbors judged his farm to be one always answer, "Yes, Mabel Girl-pret- supper? To be sure, it was rather of the best-equipped farms in that sec- ty soon." tion of the country. John Brown was

But there was one place on his farm niture still remained in the house with gasoline engine. no new additions. Progressive as he home produced no revenue and his it and jerked it open. thoughts were concentrated entirely upon the revenue end of the farm. lives?" asked the driver. After everything was perfected around the buildings, and all debts were paid, home and furnish it with the same the man. thoroughness he had his barns. Prob- loaded?" ably he would have done this, too-in time.

dresser, bed and dressing-table—and a her when he came in that night. green velvet rug? I just wish we could you wish we could furnish our living recovering from her surprise. room in mahogany? And if we could have one."

By Charles H. Smith

how necessary it was that he should a series of delighted little exclamashe should have all the pretty things could scarcely contain herself.

a leader. If he installed a new device new furniture had been bought. Then men to place the heavier pieces. And his neighbors, for John knew what he ly asked that same question. And John she ran up to the men. as always, had answered, "Yes, Mabel -soon now," and had explained how place this furniture in the house? I'll to have it. He hadn't realized before that was not up to date. And alas! he must have a new gasoline engine that was his own home. Just before so that he could have more power to she said appealingly. he had been married he had collected run his machinery, which would take a rather nondescript assortment of fur- about all of his cash. Seeing how disniture-most of it old and second-hand appointed she was he had tried to This wasn't part of their job. Then everything arranged?" asked Mabel no--and Mabel had loyally said that she cheer her up by telling her that the one of them spoke up: "Sure, Miss, ticing his silence. would make it do until they got a start. new furniture would be there much we'll be glad to help you." But now they had a start—a fine pros- sooner than she expected. And then pect ahead of them-and the old fur- he had driven to the city for the new back porch that evening a vision in he replied trying to appear enthusi-

was in getting the latest machinery up laden with furniture. When Mrs. his neck and a dozen kisses were rain- you?" she asked again, wishing to be and conveniences around the barns, Mabel Brown saw it turn in the yard ed upon his tanned face in quick suc- reassured once more. John hardly gave his own living quart- her heart beat fast with anticipation. cession. The attack almost took his ers a serious thought. He was com- The driver descended from his seat breath away. fortable, and that was sufficient. His and knocked at the door. She flew to

"Yes."

then he might give his attention to his niture he ordered yesterday," replied arm she quickly pulled him into the planation and a little diplomacy he "Where do you want it un- house.

Since the first year of their marriage getting the furniture but going to town the new mahogany furniture all taste- other store and after careful considhis pretty little wife, Mabel, had con- and having it sent out! Now she knew fully arranged. "When the delivery eration made one purchase, stipulating fided to him her longing for pretty fur- what he meant when he had said that man drove in the yard and asked if delivery that afternoon. Then he drove niture-and a piano. But never insist- it would be there sooner than she exently. It was: "John, dear, wouldn't pected! It was so good of him! She this bed-room look lovely with an ivory would show him how happy it made he unloaded all these lovely things- in one of the new wicker rockers read-

afford to have it!" Or, "John, don't she finally exclaimed after partially

only have a piano, too! I'd just like it on the lawn and seating herself watch- our other rooms. Oh! It's 'all 'so city and give that man a calling down so much! Oh, I'm afraid I'll forget ed the burly driver and his assistant pretty! You're so good to me." how to play before we can afford to unload the big van. John certainly

get this or that for the barn or that tions of admiration from her as the he had some bills almost due, telling men unloaded each piece. And when her how he'd like to get all of these they began carrying the different piecthings for her if only he could afford es which went to make up the beautito buy them. But some day, some day ful mahogany living-room suite she that she wanted. Mabel would sigh a there were other pieces of furniture little, re-arrange the old furniture as that she hadn't even mentioned to prettily as she could and try to con- John-but they were just what she ago and moved on his own farm John tent herself with promises of the fu- liked! Another bed-room suite in wal ture. But at times her longing would nut! Some pretty wicker porch fur the best farms in Veronica county. get the better of her and then she niture—a settee and three rockers! would bury her face on John's big Suddenly a brilliant thought came to each new idea as soon as its worth had think you can afford to get our pretty ture and have it all arranged in the furniture soon now?" And John would different rooms when John came in to heavy work for such a little woman But five years had slipped by and no but then, she could get the furniture one afternoon the little wife had gent- wouldn't John be pleased. Jumping up

be glad to pay you for it if you will,"

white flew to him, two small white astic. The next afternoon a big van drove arms wound themselves tightly around

and jerked it open.

"Is this where Mr. John Brown I just love you, Sweetheart!"

"Is this where Mr. John Brown I just love you, Sweetheart!"

"Well, I've brought the load of fur- quick kisses and taking him by the home by mistake and after some ex-

So John-Dear Old John, had sur. ed when she had piloted him through other John Brown a duplicate order. prised her by saying nothing about the kitchen into the living-room with After paying the bill he drove to an-Mr. John Brown lived here I knew home. When he turned into the yard right away what you'd done. But when Mabel was on the front porch sitting just exactly what I wanted-well, I ing a book. "Oh! Unload it on the front porch!" was the happiest girl in all the world, Dearest. And I just got the men to didn't tell me that you were going help me settle the house and surprise away." Then she went to a point of vantage you, John dear. Now come and see

And John would patiently explain dear! The ivory bed-room suite brought him led him to see the ivory bed-room replied John laughingly.

suite, which had particularly delighted

If Mabel had not been so supremely happy she might have noticed the look of surprise on her husband's face when she bustled him in and showed him the new furniture. But happily she didn't and so her happiness was unalloyed. For the fact is that John Brown had not bought a penny's worth of furniture and had never even seen this particular assortment before. While his little brown-eyed wife was so happily displaying the new things, he was trying to solve the enigma. Suddenly he remembered of hearing about a young fellow named John Brown who had just been married and was moving on the Wentworth Farm a mile south. That was it! The young bridegroom had ordered the furniture sent out to the Wentworth Farm from Minyon City and the driver had made a mistake due to the likeness in names and had delivered it to the wrong house. And the furniture was all ar-"Would you men please help me to ranged in his house. He wanted Mabel how much it meant to her.

"John, why don't you say some-For a second the men hesitated, thing? Don't you like the way I have

"It's-it's fine, Mabel Girl. You've. When John Brown stepped on his done just fine. Everything looks great,'

"I'm so glad you like it. You do, don't

"You bet I like it. It's all right," answered John as he racked his brain "John! You Old Dear! Why didn't to figure out how he could make it "all

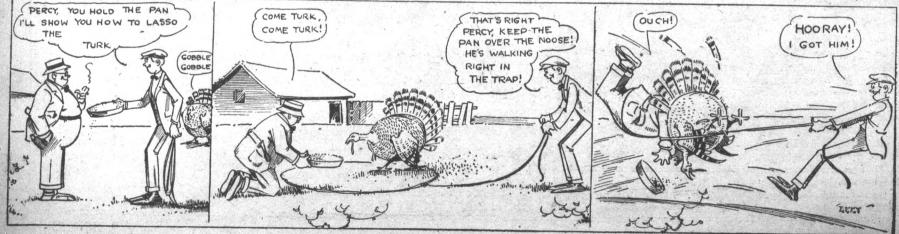
The next morning he drove over to And then another hug that threat- Minyon City and hunted up the firm ened John's vertebrae and some more that had delivered the furniture to his persuaded the dealer to allow him to "Isn't it lovely, John dear?" she ask keep the entire order and send the

"John dear," she called to him, "You

"Well, Mabel, I just had to go to the for not delivering your new piano with She gave him a quick little kiss and the rest of the things. But it's all knew just what she wanted-the old then slipping her small arm around right. It will be here this afternoon,"

AL ACRES-Unusual Excitement Occurs During Thanksgiving Preliminaries at Al's House,

-By Frank R. Leet



How to Skin Fur-bearing Animals

By S. Thomas

O fur-bearers should be trapped before they are prime. Most states have trapping laws, and it will pay the trapper to obey the law. If the trapper lives in a state where there are no laws regulating the trapping of fur-bearing animals, trapping should not be started before November 1 to 15, depending upon weather conditions. Naturally, furs become prime earlier in the northern states than in the south, due to climatic conditions, and the northern trapper can commence trapping sooner than his southern brother.

Skunk and raccoon are the first animals to become prime, usually around the middle of November. Then follow mink, red fox, white weasel and other land animals. Muskrat and beaver are at their best in the spring. However, a great many muskrats are taken in the fall and winter and command fairly good prices. Fall-caught muskrats are used largely for coat linings. A skin that is fully primed is always full-furred and the pelt side shows white or a light pink. Any skin that is blue on the pelt side, or streaked with blue is unprime and will be classed as a No. 2 or No. 3. A skin that is entirely black or real dark brown on the pelt side will be classed as a No. 4 or a trash.

It is just as important to know how to skin and handle the fur-bearers as to know when and how to trap them. The trapper who takes pains in skinning, stretching and handling his furs will be well rewarded for the extra time and effort spent, as he will enhance the value of his collections considerably. The better the condition the skin is in when received by the fur buyer, the less labor he has to put into it, therefore, he can well afford to pay a higher price for the properly skinned and well handled furs.

There are two ways of skinning furbearing animals-"cased" and "open." Skunk, mink, muskrat, coyote, otter, marten, fisher, white weasel, red fox and wild cat are skinned "cased."

The "cased" method of removing the pelts is as follows: Cut the skin down the under side of the hind legs and straight across to the root of the tail. Split the tail part way. Then remove the tail bone by slipping a split stick over the tail, grasping the stick with the right hand and holding the animal's body with the left-a quick pull and the bone slips out. Then pull the skin over the body to the front legs, keeping as clean of flesh and fat as possible. Work the front legs out. Pull the skin some more-use the knife around the ears and eyes-and take off at the end of the nose. To make the work of skinning easier, a strong cord The Sixth Annual at the end of the nose. To make the may be looped around the hind legs and the animal suspended from the limb of a tree or some other projecting object.

Muskrat tails are worthless and should be cut off. Otter tails should be split open on the under side the entire length, spread out flat and the edges fastened to the board with tacks.

Raccoon, beaver, badger, timber wolf and mole should be skinned "open." The "open" method of skinning is cutting the skin down the belly from the chin to the root of the tail, then peeling it from the body, using the knife whenever necessary. The fur should be tacked on to a wide, flat board to dry. Beaver should be stretched as round as possible. Procure a hoop and fasten the skin at four points in the hoop. Then gradually stretch between these fastenings, using a large bag needle, passing the string through the skin and around the hoop.

After the skin is taken from the carcass, it should be fleshed, that is, all (Continued on page 639).

Make Note of this big position Here is something that no progressive farmer can possibly afford to miss. It marks the greatest forward stride in educational exhibits ever



Your best chance to inspect and judge all types of power tarming machinery.

MAKE no mistake. This Sixth Annual National Tractor Show is not just a tractor demonstration. It is a gathering of the leading men in agriculture and all men interested in mechanical power as applied to farming. They will get together at Columbus, Ohio this February, for the exchange of new and profitable ideas.

A wonderful program has been arranged. Eight huge buildings will be devoted to

power farming equipment, demonstrations, lectures, meetings and entertainments that are free to all who come.

Tractors of every size and type, together with tractor drawn and operated tools of many kinds, will be combined in an exhibit of enormous instructive value. New and highly interesting machines and methods withoutnumber will be shown. Successfully tried out ideas, startling in the results they obtain, will be demonstrated for the first time. Valuable knowledge will be gained by every farmer--practical facts that can at once be turned into real profit.

Could You Say That You Wouldn't Want to Be Here?

You can take it for granted that you will have a good time. There will be plenty of fun. But, far more important is the big list of famous men and practical successful farmers who will be here to go into the problems and possibilities that confront you in your work.

There will be lectures by men who know agriculture as a wonderful science and by men who know it as a bread and butter earning business.

The most famous speakers, nation-wide celebrities-the men you have always wanted to meet --will be there. And for the women, too, will be a program to keep them busy and interested every minute.

Hundreds of different tractors, trac-tor-drawn and power operated tools, farm-lighting plants, etc., will form the most tremendous display ever witnessed.

Of course you want to come! Of course it will pay! Use the coupon now to obtain more complete information and insure free admittance.

The coupon below will bring you a special ticket for Free Admission along with a booklet explaining the full instructive and entertaining program. So fill it out, and mail it.

Note the Coupon

CTOR SHOW nd Educational Exposition

Arrange your plans now to come and bring your wife and family. Ample accomodations are assured for one hundred thousand farmers who will attend. Columbus, the country's most central city, bids you welcome.

Feb.7-8-9 10-11 and 12

National Tractor Sho Columbus,	
Gentlemen; Please send me your Annual National Tractor tickets for myself and	booklet regarding The Sixt Show. Also enclose fre others of my family
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A Healthful Drink No After Regrets

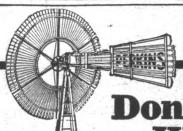
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No more tower climbing. The only objection you have ever had to windmills now permanently removed. New model Perkins Windmill has phosphor bronze bearings which run quietly every minute without once being oiled.

Find out how these graphite lubricated bearings end wind-mill annoyance and save you dollars.

Get the facts now about pumping costs on the farm and you will see that you can get all the water you want with a new model Perkins Windmill cheaper than you can get it with gas engine or by any other method.

Don't judge by any windmill you have ever seen or used. This new model has many improvements. Gravity regulator; ball bearing turn table; automobile-type crank shaft; everything to make it the most efficient pumping power in the world. Many Perkins mills in use 50 years.

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Free Book

COW BOY SURE HEATER

DON'T WAST

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

COW BOY TANK HEATER Quickest to heat; strongest draft; adjustable grates; ashes removed without disturbing fire; keeps fire 24 hrs., Absolutely Safe; pays for itself in 2 months with used in Wood, Steel or Concrete Tanks of any size. Most reliable, practical, efficient and durable Tank Heater manufactured. Thousands used everywhere. 'Purchased 3 of your Tank Heaters last Winter, worked very sationily and are well worth their cost. Every stockman should use o W. H. PEW. Prof. of Animal Husbandry.lowa State College. Ame

THE MUNDIE MANUFACTURING COMPANY 519 Brunner Street, Peru, Illinois

Mention The Michigan Farmer When Writing to Advertisers.

The Thanksgiving Habit

Our Weekly Sermon --- By N. A. McCune

had prayed before no other battle. A of such faith. Thanksgiving Day proclamation was issued, and the custom has been observed by every president since then. It has become one of our national days. Like the Fourth of July, it is distinctively an American holiday.

rew festival, a sheaf of grain was waved by the priest, before Jehovah, at the fact that He is the giver of the to comply with the doctor's suggestion. crop. After fifty days, two loaves made and best of their increase.

"Giving thanks always for all things." would be materially assisted. This is the mental state that brings

I hear the glad streams run; And all the windows of my soul

gloomy. The miller's reply was: 'I earn my bread," said he, If love my wife, I love my friend,
I love my children three,
I owe no man I cannot pay, I thank the river Dee, That turns the mill, that grinds the corn, To feed my babes and me."

this year of our Lord, 1920. We have of the botany department at M. A. C.

HE original Thanksgiving Day the forests, we have the mines, we will always have a deep interest have the agricultural lands, we have for Americans. The little com- the waterways, the fisheries, the sea pany that had come over in the May- coast, and the people to make us the flower was having a hard time of it. most powerful nation in the world. The The first winter nearly half of their Mississippi Valley alone could nourish number died, with the exposure, im- the entire population, and have a surproper food and want of medical care. plus to export. The Pacific seaboard The remainder lived on scant fare, holds the key to the Orient. And as But the first summer they reaped a for population, the very heterogeneousgood harvest, and in gratitude to the ness of it is a source of strength. We good God whom they served so cour- have not one type of human, but sevageously, they appointed a day of eral, and the blending of them means Thanksgiving, November, 1621. virility. When one considers the pop-Thanksgiving was not at first an an- ulation in such countries as France or nual festival, but was observed from England, it is evident that the United time to time as special occasions arose. States is still in the beginning stages. In 1789, after the state had ratified the And yet this wealth of resources, this constitution, congress appointed a day variety in population are but the of thanksgiving, and at the close of groundwork of national strength. A the War of 1812, President Madison people's greatness lies in its strength issued a proclamation calling for a day of purpose, its religious faith. And if of thanksgiving and prayer. But probincreased wealth means the decay of ably the greatest thanksgiving day soul, it is but a synonym for death, after colonial days was that of 1863. "The tumult and the shouting dies, the The battle of Gettysburg had been captains and the kings depart. Still fought, which had turned the tide of stands thine ancient sacrifice, an humthe Civil War. It was the greatest ble and a contrite heart." That was battle ever fought on the western con- the sentiment expressed at one of Engtinent. Up to that time, victory had land's great anniversaries, and it needs perched on the banners of the south echoing now. When the Serbians were more frequently than on those of the on their terrible retreat before the north. But when the smoke cleared Austrians, American Red Cross workaway after three terrible days of can- ers remarked the fortitude of those nonading, Lee turned back toward the humble folk. No words of hate were south, never again to attempt an in- heard. There was no despair, and no vasion of the north. A few months immorality. Whatever form of Chrislater the battlefield was dedicated as tianity they believed, it was a reality a national cemetery, and Lincoln gave to them, when they needed it most. his undying Gettysburg address, which Much yet may be expected of such a every American child should be taught people. Much may be expected of any to memorize. Lincoln's heart was full. nation that nourishes a real and quiet He told General Sickles that he had faith in the Lord of Hosts. Thanksprayed for victory at Gettysburg, as he giving ought to remind us of the need

NATIVE PLANTS OF MICHIGAN.

WITH a view to the publication of a volume giving a complete description of the plant genera and spe-N the Old Testament a correspond- cies of Michigan, Dr. E. A. Bessey, proing festival was held. In fact, it is fessor of botany at M. A. C., is seekmore than likely that the Pilgrims got ing the cooperation of the people of the idea from the Bible. In the Heb- the state in compiling the necessary information. Those who have collections would be putting them to the the beginning of harvest as a token of fullest use if they found it convenient

"Many persons possess collections from the new grain, were waved be- of plants made at various times and in fore the Lord, to show that the people various places in Michigan," says Dr. recognized the Creator with the first Bessey, "which in many cases are no longer of interest or are no longer be-The New Testament does not hold ing increased. Could the owners be to set feasts and times of thanksgiving persuaded to deposit them in the herso much as it teaches the attitude of barium at M. A. C. they would be very thanksgiving as a habitual state of gladly received and cared for and the mind. "In everything give thanks." work of preparing the printed flora

"Furthermore, there are many peothe greatest returns. The whining, ple who pick up rare or interesting grumbling person shuts the windows plants here and there and do not know of the soul against all that is finest in what they are. If these should be sent life, while the thankful heart is open to us they would be named, in this way to every life-bringing influence. Whit- benefiting the sender and at the same time aiding the whole project, for fre-'The west winds blow, and singing low, quently such plants prove to be of the greatest interest."

One valuable collection made in Oak-The King of England one day heard land, Wayne and Monroe counties by a miller singing at his work, and ask- the late Benjamin F. Chandler, of Deed him how he could be so happy, troit, has just been received from the ed nim now ne could be so happy, executor, C. Billington, himself an enwhile he, the monarch, found life thusiast in the subject. Because much of the original flora of the state is being destroyed, Dr. Bessey desires to complete his information as soon as possible. The volume when issued will be the culmination of eighty years of work began by such pioneers as Cooley in Macomb county and Whitney, of the state geological survey, and car-No nation has cause for gratitude ried on by Dr. William J. Beal, now of more than the United States, in Amherst, Mass., for many years head

FUR-BEARING ANIMALS.

(Continued from page 637). superfluous fat and flesh should be removed. A dull knife may be used to good advantage for this work. If all fat and flesh is not taken off, the skin is liable to become tainted or hairslip, or grease-burnt. A tainted or hairslip skin is one from which the hair comes out in large bunches, and such skins are practically worthless. Greaseburnt skins crack when bent, and are of but little value. Always skin the animal as soon as possible after kill-

"Cased" skins should be put en boards, flesh out, belly on one side and back on the other, and fastened with half a dozen tacks. Skunk, muskrat, mink, white weasel and wild cat may be shipped flesh out; skins of other fur-bearers should be turned when dry and shipped fur out.

Never dry furs near the heat of a fire or in the sun, but put them in a cool, dry place. Do not use salt or alum on your furs, as it is injurious to the skins and lessens their value.

Be careful not to over-stretch the skins. Don't try to make a large out of a medium. You can't fool the buyer and you will be the loser, as the fur is spread over too large a surface, thereby becoming thin, and such skins will not be graded as No. 1.

There are several kinds of steel fur stretchers on the market, which are very good for that purpose, and particularly useful to the beginner. However, a supply of stretching boards can be made from shingles and other soft wood. Average size mink boards should be about thirty-two inches long, four and a half inches wide at base and four inches at the shoulder, then taper to a blunt point at the nose. The skunk board ought to be about twentyeight to thirty inches long, five to seven inches wide at base and four to six inches at the shoulder, from there coming to nearly a point, about an inch wide at the end. The muskrat board should be about twenty-two inches long, about six inches wide at base and about five and a half at shoulder, then taper to a point.

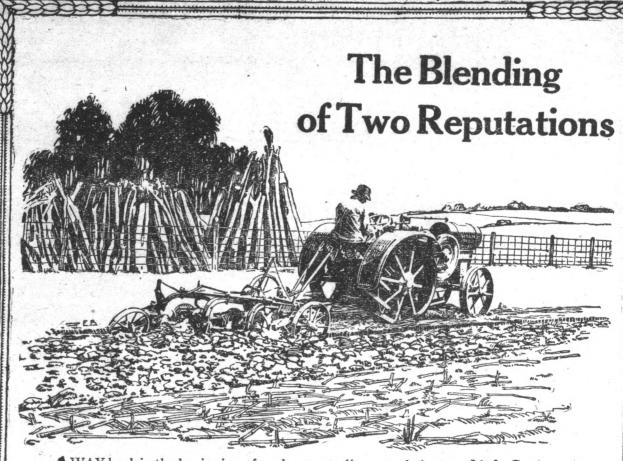
When the skins are thoroughly dry, they are ready for shipping. Pack them flat, one skin on another. Never put one skin inside another. Tie them together securely and wrap in burlap. Most fur houses furnish identification cards, which are sent free to the shipper. The contents of your shipment should be listed on one of these, your name and address plainly written on it and the card placed inside the bag-or bundle. Also be sure your name and address are plainly written on the outside tag and that it is securely fastened to the bundle.

Small packages may be shipped by parcel post. Larger bundles should go by express. Never ship by freight, as the delivery is too slow and your furs might spoil while in transit.

An important thing to the trapper is to ship his furs to a reliable house. Of course, it is hard to tell which is which unless you have done business with them before. There are many reliable fur houses who will treat the shipper "square" and most of these will hold furs senarate on and submit a valuation. If you have any doubt in your mind regarding the house to whom you are making your shipment, it would be well to request the shipment held separate. Then if the offer is not satisfactory you can have the furs returned.

Skin, stretch and handle your furs with care, use judgment in shipping and trapping will pay you big.





WAY back in the beginning of modern American farming the pioneer builders of farm machines began their work. For more than three generations the genius and skill of good plow makers at Canton, Illinois, ran parallel with the skill and genius of good farm machine builders now united under the name of the International Harvester Company.

From the pioneer days down to date these industries were intent on providing the farms with quality machines. They were ever on the alert for improvement

and progress.

When, fifteen years ago, this Company began putting practical tractors on the farms, the Parlin & Orendorff plow makers began the development of a superior line of tractor plows. As the International Tractors developed into popularity, so did the

sterling worth in Pao Little Genius win its way into leadership.

It was fitting, therefore, that eventually the International Harvester Company should join together the extraordinary success of P&O Plows and International Titan Tractors. For a long period now these reputations have been blending. P&O Plows are a part of the International International Harvester Tractors and Peo Plows have long been working together efficiently.

Many thousands of new owners of these long-famous plows and tractors, who are turning soils with them in every corner of the land, know that this close and necessary association of power and plow is making for better plowing and more completely successful tractor farming. Peo Plows and Titan and International Tractors recommend themselves.

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OF AMERICA

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one ton truck with five by eight stake body which cost us \$850. Will sell for \$500 cash. Suitable for hauling produce.

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The Perfect Liniment For External Use on

The Human Body

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

THE LAWRENCE-WILLIAMS CO. Cleveland, Ohio



THIS SAW HERTZLER & ZOOK Wood SAW

Our Boys' and Girls' Department

Michigan Boys at the International

thing interesting each day has Stowe, Wolverine. Tour, which is for the benefit of the lotte; Merritt Young, Northville. Exposition at Chicago, November 29 Rigglis, Vicksburg; Carl Bloom, Grand and animals from all parts of the world. to December 3. The twelve boys se- Rapids. lected at the district fairs in Michigan those things most interesting to club naw; Tom Bannon, Saginaw.

about fairs and stock-judging last sum-

ty club agents were anxious to know what boys would go to the International. State Club Leaders R. A. Turner and his assistant. W. A. Anderson, have worked steadily and patiently through the hot summer days and many evenings coaching the county teams.

Mr. Anderson has

now completed arrangements with the eon will be given club different fair associations and the three members in the Arhigh-scoring boys in each judging con- mour restaurant, and test will have their expenses paid to an entertainment will Chicago. Following are the names of be held in the evening. the club boys who will make the trip, and the fair associations that send Wednesday, Deecember 1. Entertain- club champions from all parts of the them:

WEEK of "good time" and some- Ironwood; Walter Ball, Charlotte; Rex tional Bank, Marshall Field's establish-

will be there to enjoy the week and see Davidson; Edward Wendling, Sagi- through the plant of the International

Ever since club folks began talking is registration and live stock expositractors and other farm machinery on tion day. All club members will reg- a large scale. The plant of the Corn mer the various local leaders and coun- ister on that day and an opportunity Products Company will be inspected, exhibited at the world's greatest live products are made from corn. stock show.

Tuesday, November 30, will be cember 3. A chance known as Armour Day. A complete will be given to say trip will be made through the huge farewell to all club

packing plant with ample opportunity to see the slaughtering, beef coolers, curing of meat and the manufacture of soap, glue, curled hair and other by-products. At noon a lunch-

Loop Day comes on ment on this day will include visits to United States are making plans to at Michigan State Fair: - Carl Johnson the Continental and Commercial Na-tend the exposition.

ment, the art institute and other points been arranged for that part of Jackson County Fair: - Don Shep- of interest in Chicago's big downtown the program known as the Junior Club ard, Charlotte; Ward Parker, Char- business district. Lincoln Park with its zoo will also be a feature when the prize-winning club members who will Grand Rapids West Michigan Fair: club members will see bears, lions, tigattend the International Live Stock -Ralph Johnson, Charlotte; Verne ers, monkeys, camels, birds, sea-lions,

> Thursday, December 2, is Manufac-Saginaw County Fair: - Verne Diehl, turers' Day. A trip will be made Harvester Company to see the manu-The first day, Monday, November 29, facture of binders, rakes, wagons, will be given to all to see the animals starch, gluten, syrup and forty other

> > Good-bye day comes on Friday, De

friends, old and new, and to pledge another year of club work that will win another trip to Chicago.

A movie will be taken of every club activity during the week, in which officials of the United States Department of Agriculture,



farmers' organizations and the International Live Stock Exposition will take a part. Three hundred and twenty-five



How I Got Started-By Clifford Gettings, Hillsdale

and also because of their eggs, and also of their show quality, that is, at poultry shows, fairs, etc.

It takes some time to get started in well marked birds, we have been raising the Silvers for eight years and are beginning to get some good ones now after years of culling out and mating the best marked birds. The birds I had this year were some fine show birds, well -marked, and they matured I won three well firsts and four seconds, also second bes-t parti-colored birds at the local fair this fall.

I was a member of the demonstrating team from Hillsdale this year. The counties of Michigan were divided into districts of which Hillsdale was in the fifth district. The local teams would com

because we have always had this kind clubs. In this demonstration we had over and sorted out the flock of eighty



Four Years of Club Work Has Developed Clifford Into a Poultry Breeder.

pete and winners go on till the win- to pick the laying hens from the oth- club member is that Helmi secured the ners were from the five different dis- ers, so one of the men of Hillsdale money for the purchase of this pig

BECAME a member of the Poultry tricts. Our team was lucky to be the that raised poultry had me come over Club three years ago, as I have al- winner of the fifth district, which and sort his chickens, for he wanted ways taken a great interest in "Fancy means that we got a chance to go to to sell some because they were not Poultry." It is a pleasure, also a profit, the State Fair at Detroit. Hillsdale laying enough eggs for the amount of and also a great deal of work to raise won the state poultry judging contest chickens he had. He said there were poultry. I raise Silver Wyandottes, of Michigan for all boys' and girls' too many loafers in the flock. I went hens, so he had about thirty-five left. On the day he had all of them he got twenty-eight eggs and the next day after he sold those that I thought were not laying, he got twenty-seven eggs,

> So you see what the poultry club has done for me and-I wouldn't have known nearly as much about poultry if it hadn't been for this. The club work also teaches one to keep reports for feeds, labor, etc.

so you see there were some loafers in

the flock that were not bringing in any

profit and they took as much feed as

PIG CLUB MEMBER WINS FIRST PRIZE AT GOGEBIC COUNTY

LIELMI NEVALA, daughter of Mr. nand Mrs. Walter Nevala, Ironwood township, was the lucky winner of a registered Duroc-Jersey sow, given by the Michigan Duroc-Jersey Associa-

Helmi has been an active club member for many years, engaging in garden club work, garment-making club work, and lastly, as a pig club member. Helmi is the youngest member of any of the live stock clubs in the county. Plans are under way for drawing more girl members into these clubs in the coming year. An interesting fact in connection with the story of the pig

om "The Farm Boys' and Girls' Leader." Helmi is mighty proud of this purchase.

Why Pure-bred Stock

By Carl Johnson of Ironswood, Who Won a Trip to the International

VERY farm boy, as well as his father, hopes some day to have a fine herd of pure-bred cattle. The question I want to ask is, why not start at the beginning with pure-breds, instead of grades? Some will say that it costs a pile of money to start with pure-breds. It is very true that it costs more to buy a pure-bred animal than to buy a grade, but where is there a better investment than one that will assure you of success? And if you are looking for success the best way to find it is to invest in pure-bred cattle.

If you start in with one pure-bred heifer you can have her bred to a purebred bull if there is one near you, and in a few months you will have a purebred calf. Now, this calf at the age of six weeks will be worth more than a grade calf at the age of six months. If it is a heifer calf you can keep it to increase your herd, and if it is a bull calf you can always find a good market at high prices for pure-bred bull calves are always in demand if they come from a good producing herd. This is one point in favor of the pure-breds and that is, you can always sell a purebred calf for a good price that is far above its value as beef on account of the future value of the calf as a producer or breeder. All you can get for a grade calf is what it is worth as beef. because no real farmer wants a grade bull to head his herd and nobody cares to buy a grade heifer calf and keep her until she starts milking.

Of course if there is no good purebred bull in your neighborhood you will have to buy one. A good way to get a start is to buy a purebred bull calf and a pure-bred heifer. It will cost a little more than to start with grades but it will pay you in the end.

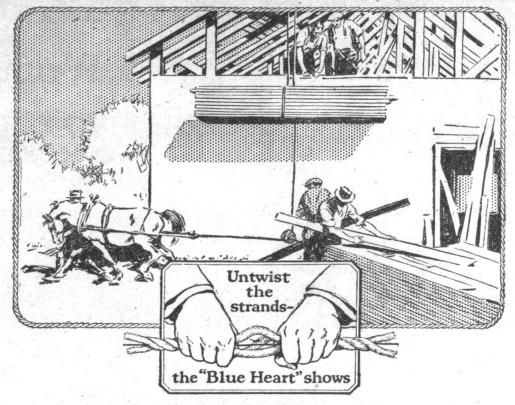
When you are buying a pure-bred animal make sure that you buy one whose ancestors have good records of production and you are bound to win.

Remember boys, you are going to have pure-bred cattle sooner or later, and if you start from the beginning with pure-breds, your success is assured. Why put off for a few years what you can have right now?

AN UNPLEASANT VISITOR.

RECENTLY while after the cows, the dogs and I ran onto an early hunter, out after his breakfast.

Ted discovered the hunter and immediately started after him. But l soon noticed that he did not want to get very close to the creature that was bobbing along before him, and I mistrusted that there was trouble, and perhaps something more, for it was not long before I could scarcely breathe for the smell that arose from the trail of the trio- Ted kept just about so far behind the skunk, barking at the top of his voice, while Flicker took after them both, yelping in his Across the pasture they went pell mell, and down into the meadow. Once the skunk whirled on Ted. Much to my surprise Ted having a wholesome regard for the animal backed off hurriedly. A moment more and the skunk had dashed into a woodchuck hole and was safe. Ted seemed glad to get out of a bad job that way and went home through the twilight, blowing his nose and acting as if he expected to be banished for a week or so from the presence of those he loved, which turned out to be the case. I have not laughed in many a day as I did to see those three natural enemies race about, each afraid of the other and not caring for any nearer approach myself.



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H. & A. "Blue Heart" Manila Rope takes the stress of tremendous pulls

Rubbing, grinding over pulleys, hoisting heavy loads of lumber into place—this is work which no ordinary rope can long stand without fraying and

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H. & A. "Blue Heart' Manila Rope is guaranteed to equal the yardage and exceed the break-ing strength and fibre require-

ing strength and fibre require-ments specified by the United States Government Bureau of Standards. Any H. & A. "Blue Heart" Manila Rope found to be not as represented will be

snapping to pieces. In building a barn, in painting the house, and in a dozen other ways, you often trust your life to a rope. You want no ordinary rope then. You need a rope of known strength -of excess strength.

And this is what you have in H. & A. "Blue Heart" Manila Rope. Spun from the toughest

of manila fibre, it is built to stand the stress of tremendous pulls.

H. & A. "Blue Heart" Manila Rope comes to you with a guarantee to deliver more strength than is specified as standard by the United States Government Bureau of Standards. If it doesn't, you are entitled to a new rope. And yet the cost is no more than that of ordi-

Use it for your heaviest loads—and see it stand up through exhausting work in every kind of weather.

A rope whose strength is insured There are many fibres used in rope making, of varying strength and durability. Manila, the strongest, the toughest, has numerous substitutes which closely resemble it.

The public, confused by this similarity in appearance, has had to buy in the dark and trust to the honesty of the maker for good

The eye cannot detect adulterations. What looks like excellent rope will often fray to pieces when comparatively

new. How, then, can you tell? There's an easy way. Pick up any piece of rope in your hands, untwist the strands, and—
If you find a thread of blue running through the center, a Blue Heart, then you will know that you have found a good rope, a rope built to deliver more strength than you require.

Then you will know that you have found genuine H. & A. "Blue Heart" Manila Rope. Let H. & A. "Blue Heart" Manila

Rope do your heavy work A halter made of H. & A. "Blue Heart" Manila Rope has three times the strength of a leather halter. A piece of H. & A. "Blue Heart" Manila Rope the size of your little finger will carry the weight of fifteen or twenty men.

And with this strength you get a rope that flexible, smooth-surfaced, easy to handle,

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H&A"Blue Heart" Manila Rope





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15% More Milk

Libbey Automatic Water Bowls bowl controls its own water supply, operated entirely by cow, and may be put at different heights, or in any stall or pen. No float tank required. Cannot overflow; cannot get out of order. Almost no water left in bowl to become stagnant. They save labor and feed and increase milk. Prevent spread of contagious diseases, as each cow has her own bowl and no water can pass from one to another, as with old-style bowls. Very simple and easy to install. Write for circular and prices, also FREE DAILY MILK AND FEED RECORD.

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It's Hard to Keep Cows Clean

when they are stabled, but clipping makes it easy. Takes only five minutes a month to clip flanks and udder of each cow, then wiping with a damp cloth quickly cleans before milking. Keeps dirt and filth out of the pail. Clipped cows give better and cleaner milk. The Stewart No. 1 Machine is best. Clips horses also. Only \$14 complete at your dealer's, or send \$2 and pay balance on arrival. CHICAGO FLEXIBLE SHAFT COMPANY Dept. A127, 5600 Roosevelt Road, Chicago, III.

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Third: There are no fail-ures—it always makes the sweetest, most palatable of foods.

Fourth: It is used by millions of housewives—leading domestic science teachers and cooking experts.



Fifth: It is the best Baking Powder that can be produced. Was given highest awards at World's Pure Food Exposition, Chicago; Paris

Exposition, Paris, France.

Sixth: It contains only such ingredients as have been officially approved by the United States Food Authorities.

The finest quality Baking Powder—at the most economical cost. "The Biggest Bargain That Goes into the Kitchen Today."

Pound can of Calumet contains full 16 oz. Some baking powders come in 12 oz. instead of 16 oz. cans. Be sure you get a pound when you want it.

Calumet Nut Cookie Recipe

1 cup butter,
1/2 cup sugar, 2
eggs, 1/2 cup
flour, 1 level teaspoon Calumet Baking Powder, 34 cup chopped nuts, 1 teaspoon l'emon juice.

Then mix in the

regular way.

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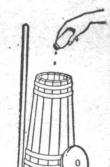
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Send for our Money Saving Price List, or better still Send \$1.75 for 5 lbs. JEVNE'S EXCELLO COFFEE or \$1.90 for 5 lbs. JEVNE'S SPECIAL COFFEE or \$2.00 for 5 lbs. JEVNE'S PERFECTION COFFEE JEVNE COFFEE CO., (Est. 1881) Coffee Specialists DEPT. 7, 2855-57 W. MADISON ST., CHICAGO, ILL.

Woman's Interests

The Real Trouble With the School

that in the past few years?

to blunder through the grades and high feeding? school, even into college, unable to ered to General Gates.

teachers and superintendents and Armenian children. True, we want the school boards. But, really, are they children to help the suffering. But do Michigan State Teachers' Association work in the time alloted to learn their convened in Grand Rapids in October, mother tongue and the multiplication if we hadn't been a little rough on tables? teacher especially. Can we expect her The trouble with the schools harks to do more in her six hours with our back to the parents. Teachers and young hopefuls than we are able to school boards do exactly as we let accomplish in the other eighteen?

not do, get ideas into a befuddled taught if we get together. brain. What child could remember The great cry is that the modern whether "i" or "e" comes first, if child doesn't want to work. In that he

HAT is the matter with the he is wondering just what happened schools?" How many people to the hero after the villain bound him have grumblingly asked you hand and foot in the deserted mine and started the fuse? How can he remem-Certainly something is wrong some- ber nominative forms when his brain where when boys and girls are allowed is fed by blood poisoned from faulty

Then the amount of work we expect spell the commonest words, and, seem- teachers to do in a day. In country ingly, entirely ignorant of the simplest schools, one teacher for eight grades. rules of grammar; when they looked In city schools, time wasted on fads, dazed over a problem in compound in- a dab of music, a smatter of drawing, terest; when they tell you Prussia is an hour or two of manual training, a a county somewhere in Asia, and are quarter of an hour off to listen to some not just clear as to whether it was uplifter expound on his original idea Burgoyne or Barleycorn who surrend- for elevating the human race, periods of making dolls for French children It is quite the fashion to rail at the and giving playlets to raise money for wholly to blame? I wondered as the we want them to do their charitable

them. After all, school officials are After all, the teachers do about as elective and teachers are public serwell as can be expected with the mate- vants, paid out of our pockets. When rial they have to work on, and the sub- parents get ready to stop carping and jects they are expected to cram in. unite to insist that the schools teach We start the children off in the morn-essentials, a change will come. Whething with minds filled up on movies or er the child belongs to the home or cheap stories, and stomach filled with the state doesn't make any difference griddle cakes and coffee, and then ex- in this case, because we are the state. pect the teacher to do what we could We can say what our children shall be

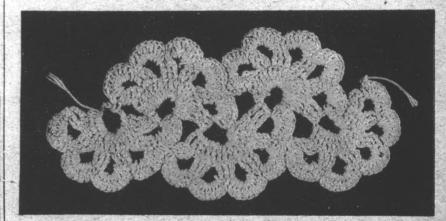
The great cry is that the modern

Double Scallop Crochet

wide, ordinary carpet warp is the me- group of to with slip stitch (sl st.) dium, finer threads decreasing the size Continue new scallop by ch of 4 to

THE scallop-like trimming illustrat- of last group of tc. Double crochet (dc) ed can be used as an insertion or 9 into ch of 5. Sc 1 into center of an edging, and is suitable for bedroom next group of tc, and dc 9 into next ch linens, curtains, and lingerie, accord- of 5, and so on around the scallop. ing to the materials used. In the sam- After the 9 dc into last ch of 5 begin ple, which is more than two inches a new scallop by ch 8 and join to last

proportionately. The work is espeturn, and 17 tc. Ch 4 to turn, 2 tc, cially effective in a medium fine thread, ch 5, 3 tc, ch 5, 3 tc, ch 5, 3 tc, ch 5, of a close, firm twist. Since each scal- 3 tc, ch 5, 3 tc. Sc 1 into center of lop-like portion of the design is com- first scallop to connect the two and



pleted before proceeding to the next turn. Do 9 into ch of 5. Sc 1 into it is possible to make the work of any group of tc. Dc 9 into next ch of 5, desired length without difficulty. The and so on around scallop. pattern is learned.

work goes very rapidly when once the Each successive scallop is made in this manner, but in connecting them to Begin with a chain (ch) of 16, and the preceding scallop instead of single unite to form a circle. Ch 4 to turn, crocheting into the central ring, just and triple crochet (tc) 17 over a little after completing the row of alternate more than half the circle. Ch 4 to triple crochets and chains a single turn, tc 2, ch 5, tc 3, ch 5, tc 3, ch 5, crochet is made between the first and to 3, ch 5, to 3, ch 5, to 3. Turn, make second groups of 9 double crochets in ing 1 single crochet (sc) into center the preceding scallop.—M. MAHAFFY.

is not one whit different from his forbears. No one wants to work. The difference lies here, his forbears were made to work.

Life has been made too easy for the child of today. No drudgery is to be allowed in the modern school. Learn ing is to be made easy, and pleasant. It can't be done. It may be made pleas ant by a real teacher, but, to the average child learning can never be made easy. It must be drill, drill, drill. A certain amount of drudgery is necessary not alone to drive the facts home, but to develop his character, give him "spine."

Parents and teachers are both at fault here. The average parent is too spineless himself to make a child do unpleasant tasks. It is so much easier to do it oneself than to insist that the child do it. And teachers have hard work to counteract home training.

The schools need a stirring up. The place to begin is with the parents, and not with the teachers. DEBORAH.

JELLY AND BUTTER FROM SAME APPLES.

BY HARRIET HENDERSON.

OUARTER apples without peeling or removing the core. Cover with cold water and boil slowly. I find they boil down much easier without burning than if peeled, and the peel gives color to the jelly. When they are thoroughly soft pour off some of the juice for jelly.

Put the rest through a coarse colander, season to taste with cinnamon and sweeten. From a gallon of quartered apples cooked, I get about three cups of juice and have three pints of apple butter. I use three-quarters of a cup of sugar to one of juice and boil five minutes. The juice can be poured off carefully through a sieve before stirring the apples and it will need no straining.

For the apple butter I use about one and one-quarter cups of sugar and one teaspoon of cinnamon to the amount of pulp. You will find that it is better to cover the apples with cold water and not cut in smaller pieces than quarters, as this allows the juice to be extracted without the apples being broken up so soon and they do not burn so easily.

HOME QUERIES.

Subscriber, Milan.-I have no recipes for using sorghum. Here are two recipes for taffy, however, one using syrup and one using molasses.

Taffy with Syrup.—Boil one quart of syrup until brittle when dropped into cold water, stirring frequently to prevent burning. Add one-half teaspoon of soda, and stir well. Then pour on greased pans until cool enough to

Taffy with Molasses.-Two cups of molasses, one cup of sugar, one tablespoon of glycerine. Boil until it forms a hard ball, remove from fire and add half a teaspoon of soda and three tablespoons of butter. Pour into buttered tins until cool enough to handle.

. If you will write to the department of agriculture, Washington, D. C., you can undoubtedly get a bulletin giving four sizes, 4, 6, 8 and 10 years. A sixyear size will require 2% yards of 36-

Mrs. S. B. E .- Coat the bottom of your rug with a weak solution of glue. It would be better to send it to the rug cleaners and have them clean and "size" it. They know exactly how to do it right. You could remove the wall paper by using simply water, applied with a brush. This is what the paper hangers do. Oiled paper, such as is used in kitchens and bathrooms, is removed by applying strong suds.





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LILY WHITE is milled to a state of uniform granulation that is perfection. Only the nutritious wheat kernels are used. It is positively supreme in color, texture, volume and wholesomeness, and is guaranteed to be the best flour you ever used.

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Bread, biscuits and rolls made from LILY WHITE are light and tender; blessed with remarkable flavor, enticingly appetizing and wholly digestible. Don't forget bread at the Thanksgiving Dinner. It is the one great item of food for which all should ever be thankful.

Good baking results are assured with LILY WHITE. It has been a favorite for three generations with women who take pride in their baking. One sack of LILY WHITE will convince you of its many superior qualities, and you will be surprised at the ease with which you can produce really wonderful baking results.

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No. 3367.—Child's Dress. Cut in four sizes, 4, 6, 8 and 10 years. A six-year size will require 2% yards of 27-inch material. Price 12c.

No. 3344.—Dress for Work or Porch Wear. Cut in seven sizes, 34, 36, 38, 40, 42, 44 and 46 inches bust measure. A 38-inch size requires six yards of 36-inch size requires six yards

No. 3346.—Child's Coat. Cut in five sizes, 4, 6, 8, 10 and 12 years. A sixyear size will require three yards of 44-inch material. Price 12c.

Price 12c.



inch material. Price 12c.



No. 3365. -Boy's Suit. Cut in four sizes, 3, 4, 5 and 6 years. A four-year size will require 1½ yards of 27-inch material for the blouse, and 1½ yards for the trousers. Price 12c.

Wear. Cut in seven sizes, 24, 36, 38, 40, 42, 44 and 46 inches bust measure. A 38-inch size requires six yards of 36-inch material. The skirt with plaits extended measures about 1% yards.



No. 3361.—A Popular "Cover All" Apron. Cut in four sizes: Small 32-34; medium 36-38; large 40-42; extra large 44-46 inches bust measure. A medium size will require 6¾ yards of 27-inch material. Price 12c.

sizes, 34, 36, 38, 40, 42 and 44 inches bust measure. A medium size will require 6% yards of 40-inch material. Width of skirt at lower edge, is 1% yards. Price 12c. No. 3169.—Ladies' Dress.

No. 3353-3345.—A Costume for Business Wear. Waist 3353 cut in seven sizes, 34, 36, 38, 40, 42, 44 and 46 inches sizes, 4, 6, 8 and 10 years. A six-year bust measure. Skirt 3345 cut in seven size will require 3% yards of 27-inch sizes, 24, 26, 28, 30, 32, 34 and 36 inch-material. Price 12c.



es waist measure. It will require 21/2 yards of 38-inch material for the skirt yards of 36-inch material for the waist for a medium size. The width of the skirt at its lower edge is 1% yard. Two separate patterns 12c for

No. 3327—Boy's Overcoat. Cut in five sizes, 6, 8, 10, 12 and 14 years. A 12-year size will require 11/4 yards of 40-inch material. Price 12c.



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We are now offering 500 more fine S. C. White Legnorn Pullets five months old and about ready to lay. The first week in December the pullets will be six months old and can be laying well by that time. Eggs from these birds this winter will nearly pay for the birds. A few 4 mo, pullets also of the same stock. If interested write us at once for description as the pullets are to be sold immediatly. We guarantee everything. Have 500 yearling White Leghorns for breeding at \$1.75 each. Cockerels We still have 50 fine Barred Rock Cockerels from our well bred Barred Rock Cokon, Send for description.

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W. E. WEST, R. 1, East Lansing, Mich.

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Cockerels, Pullets, April hatched, get Norman's su-perior strain direct. Catalogue 25c. Circular free. NORMAN POULTRY PLANT. Chatsworth, Ili

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

Barred Rocks egg contest winners eggs from strain with records to 280 a year. \$2.00 per setting prepaid by P. P. Circular free. FRED ASTLING, Constantine, Mich

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Fowler's Buff Rocks Cockerels, hens and pul-R. B. FOWLER, Hartford, Mich.

50 Buff Orpington ckls., fine stock \$5 and \$8, 2 good yearling cocks, \$5 each. Cash with order, guarantee satisfaction or refund.

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HEIMBACH'S Heavy laying strain White Wyandottes—Martin foundation, splendid birds, true to form. Yearling hens, April hatched pullets and cockerels and up. C. W. Heimbach, Big Rapids, Mioh.

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

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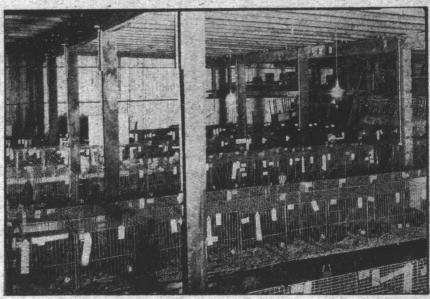


By R. G. Kirby

CONSIDERABLE can be gained by known as lighter breeds like Leghorns. properly preparing birds for exto take the prize.

perfect birds are scarce and the breed- appearance of the bird will be unsatis-

hibition. Often two birds will be near- Rocks, do not-require much washing ly equal in points and then the bird before being exhibited and sometimes that is clean and well groomed will not any. Birds that are unclean, and look just enough better than its rival white birds, do need a bath. Fill two tubs with warm soft water. Lather The beginner should study the stand- the bird with soap in the first tub unard of perfection for each breed that til the feathers are thoroughly cleanhe expects to exhibit and then select ed. Then rub off as much of the soap the birds that most nearly conform to as possible and thoroughly rinse in the its requirements. It is a waste of time second tub. Be sure and remove all of to show birds that are seriously de- the soap in the feathers or it will dry ficient but at the same time nearly and stick the feathers together and the



Give Your Birds Every Possible Advantage when Exhibited.

that fact.

Pullets look the best just before lay- clothes. six months for the class of chickens of infection.

er cannot expect to find birds that ex- factory. After a white bird is careactly conform to the standard and fully rinsed it may be plunged into a should not be discouraged because of tub of cold water containing about as much bluing as is used in washing

ing their first egg and so the time of In mating up breeding pens for exhatching exhibition stock should bear hibition it pays to select the birds so some relation to the shows where the that they will appear as uniform as birds will be entered. Time enough possible in size, shape and color. Nevshould be allowed to give the birds er exhibit birds that are lacking in vigtheir opportunity for natural develop- or as they may become sick in the ment. The cockerels that are forced show room and give the observer a to bring them into exhibition shape very poor opinion of the stock from seem to stand the strain better than such a farm. By all means never show pullets but it is better to develop them a bird that has a cold or other ailment. steadily in their normal time. This It is not only bad business but it is unwill be about eight months for the fair to the other exhibitors to make American and Asiatic breeds and about them submit their stock to the dangers

Treatment for Colds

head of the poultry department at of molasses. M. A. C.

Symptoms shown by ailing fowls, according to Prof. Burgess, are running at the nose, clogging of the nasal cav-ities, swelling of the side of the head wheat bran and middlings to feed thirand pus forming over one eye. As a remedy he suggests a mixture of four pounds of epsom salts, six ounces of become too fat during the winter to have them lay, and how should they be fed? Our trouble is that the hens become too fat during the winter.

Kalamazoo Co. E. E. P. sixteen ounces of sulphur, ings if necessary.

one hundred pounds of meat scrap, ration that will make them too fat. An

TIMELY advice to poultrymen on This may be fed in closed rooms or methods of combatting incipient crates and will fatten two hundred colds among the flock and of fattening fowls in fourteen days. It should be lean fowls for the holiday markets mixed with buttermilk or sour milk to have been given by Prof. C. H. Bugess, which has been added a tablespoonful

HENS BECOME OVER-FAT.

During the winter the best scratch and twelve ounces of ground ginger, feed consists of half corn and half to be mixed thoroughly with mash that wheat fed in a straw litter so the birds has been moistened. One tablespoon will have to scratch for every grain ful should be allowed for each fifteen they find. Too heavy feeding of corn hens and they should not be fed until and too little exercise is the leading ten or eleven o'clock. The remedy may cause of hens becoming too fat be given three mornings in succes through the winter. Feeding about two sion, then after skipping a like num- pounds of scratch feed per one hunber, repeated for another three morn- dred birds in the morning will keep the hens hungry and force them to For the fattening of fowls, this ra- eat more of the dry mash. Then they tion is suggested: One hundred pounds can be given another two pounds at of corn meal, one hundred pounds of noon and about six pounds at night. middlings, one hundred pounds bran, In the dry mash they will obtain plenone hundred pounds of rolled oats and ty of egg-making material but not a

occasional inspection of the hens at night while on the roost enables the poultryman to learn their physical condition, and then make changes that seem necessary in the amount of grain that is fed in the evening.

Young stock will need more grain than old hens of good weight. The pullets need a layer of fat to enable them to lay steadily. The amount for different breeds will not be the same. Handle the pullets often enough to see if they are solid and meaty and in good condition for laying.

A good mash can be made of equal parts by weight of beef scrap, corn meal, wheat bran, wheat middlings and ground oats. Mangels, sprouted oats and cull vegetables are a winter tonic for the birds and this green food is not fattening but helps to keep the hens in good laying condition. Sour milk is also a good egg producer. The beef scrap in the mash should be of

Some hens of the heavier breeds may show a tendency to become overfat under the best possible management. They are apt to be hens that are not very good layers and such birds should be culled out and marketed. Breeding from the alert vigorous hens that do not seem to take on fat readily helps to eliminate that condition from the flock. We find that the heavy-laying hen is working hard enough to keep down fat and the bird that bags down with fat is apt to be a slacker.-K.

BEEKEEPERS' SCHOOLS.

THE series of bee keepers' schools to be held in various counties of the state already has been commenced in Alpena and Cheboygan counties, and will be continued the remainder of the month as follows: Antrim county, November 15-16; Grand Traverse county, November 17-18; Washtenaw county, November 22-23. Although last year most of the schools were at county seats, an effort will be made to hold this winter's sessions in other communities so as to disseminate the information about scientific bee-keeping as widely as possible.

Announcement of the winter meeting of the Michigan Beekeepers' Association in Lansing on January 25-26-27 has been made by Secretary R. H. Kelty, of East Lansing. Because the appropriation for the inspection of state apiaries must be renewed, it is desired to time the session so as to permit conferences with members of the legislature. Although the official place of meeting will be Lansing, it is likely that the business of the association will be transacted at M. A. C.

Rather than hire a manager at great expense to supervise the sale of this year's crop, the recently organized Michigan Honey Producers' Exchange has authorized the secretary to list the honey for sale, advertise it and do everything possible to help move the Michigan crop at a satisfactory price. F. W. HENSHAW.

SAVE POULTRY EQUIPMENT.

IGHT poultry crates are a good investment. They should be occasionally cleaned and sprayed and always mended whenever slats come loose or wires break. It costs money to buy new crates and the old ones are good for indefinite service if they are given the right care. Even crates that are roughly handled during transportatien can be used much longer if all breaks are mended promptly with strong wire. It does not pay to use heavy boxes for carrying poultry even when selling to local dealers. The buyers do not like to handle such crates and they cause heavy lifting and more work than is necessary. In the end a few light and strong crates will be the most profitable.

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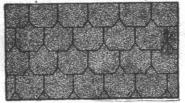
SHINGLE-CRAFT Roofing is made in two designs-"square" and "cut shingle." Either may be had in the horizontal (gable to gable) or vertical (up and over) style.

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CANVAS COVERS

Wagon & Hay Covers with eyelets, Medium and Heavy weights. Plain and waterproofed, made of a superior grade of Canvas. Best workmanship. Prompt deliveries to all parts of U.S. Money refunded if not satisfied. Send postal for prices & samples.

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Paint Salesmen Wanted

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

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at the World's Original and Greatest School and become independent with no capital invested. Every branch of the business taught. Write today for free catalog. JONES NAT'L SCHOOL OF AUCTIONEERING 28 N. Sacramento Blyd., Chic ago, Ill. Carey M. Jones. Page 100 of the Carey M. Jones. Page 100 of the Carey M. Jones.

WANT

the cheapest, handiest belt power you can buy? Then ask me about my LITTLE TWISTER Power Transmitter if you own a Ford or Dodge car.
FRANK R. WEISGERBER, Salina, Kansas

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





CHAMPION EVAPORATOR CO., Hudson, O.

International Live Stock Exposition

NOV. 27th to DEC. 4th **Union Stock Yards**

Clearing House for Agricultural Information The Criterion of All Stock Shows.

Daily Sales of Pure Bred Stock:

Polled Hereford Sale
Tuesday, Nov. 30th, 1:00 P. M.
For catalog write B. O. Gammon, 324 Valley National Bank Bldg., Des Moines, Iowa.

Polled Shorthorn Sale Thursday, Dec. 2nd, 10:00 A. M. For catalog write J. H. Martz, Greenville, Ohio.

Hereford Sale

Friday, Dec. 3rd, 1:00 P, M. For particulars write R. J. Kinzer, 1009 Baltimore Ave., Kansas City.

Aberdeen Angus Sale

Wednesday, Dec. 1st, 1:00 P. M. For particulars write Chas. Gray, Union Stock Yards, Chicago.

Shorthorn Sale

Thursday, Dec. 2nd, 1:00 P. M. For catalog write F. W. Harding, Union Stock Yards, Chicago.

Clydesdale Sale Friday, Dec. 3rd, 10:00 A. M. For information write R.B.Ogilvie, Union Stock Yards, Chicago.

A Season of Instruction in the Art of Breeding and Feeding Live Stock Economically.

THE INTERNATIONAL GRAIN AND HAY SHOW FOR CHICAGO BOARD OF TRADE PREMIUMS

Brilliant Evening Horse Shows and A TRIP TO CHICAGO

BREEDERS' DIRECTORY

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

Wildwood Farms Angus

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

Our herd is under State and Federal Supervision.

WILDWOOD FARMS

ORION, MICHIGAN

W. E. SCRIPPS. Prop.,

Sidney Smith Supt.

WOODCOTE ANGUS

Imported Herd Bulls
ELCHO OF HARVIESTOUN (45547)
by Jason of Ballindalloch (38048)
EDGARDO OF DALMENY (45501)
by Escort of Harviestoun (38006) Woodcote Stock Farm, Ionia, Mich.

For Sale Having decided to sell part of my herd of pure 5 red Aberdeen Angus cattle, consisting of males and females of different ages.

ANDREW P. EITEL, Vermontville, Mich.

FORSALE

Serviceable May Rose Guernsey Bull. Dam record 553 lbs. fat 2 yr. old. Priced to sell. Herds Fed-eral Accredit. Gilmore Brothers, Camden, Mich.

wanted to purchase one to ten High Grade Guernsey helfers that have freshened since September first or are to freshen before December 31st. Tuberculin tested and guaranteed free from contagious abortion. Address with price, breeding and milking detail to VILLAGE FARMS, Grass Lake, Mich.

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

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

Guernsey Bull Busto of Smallidge Farm, born the Ridge, who's dam Trixey of the Ridge holds first place in class EE. in Michigan. Granddam Abbie of Riverside is champion of Mich. Dam May Kings Ezalia of Ean Claire an A. R. cow. E. J. SMALLIDGE, Eau Claire, Mich.

Pure bred Guernsey bulls from one to four weeks old ped in rotation received. No excuse for scrub bulls. WALTER PHIPPS FARM, 80 Affred 5t. Detroit. Geo. E. Currie, Mgr.

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

GUERNSEY BULL CALVES whose 19,460.20 milk, 909.05 fat. Their mother's sire's dam made 15,109.10 milk, 778.80 fat.
T. V. HIOKS. Battle Creek, Mich.

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

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



Holstein-Friesian Calves

Large and Strong at Birth Healthy-Vigorous-Thrifty

Grow quickly into large, profitable, producing cows and prepotent sires. Raise good calves for future herds. Send for Free Illustrated Booklets.

THE HOLSTEIN-FRIESIAN ASSOCIATION
164 Hudson Street
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Long Distance HOLSTEINS, HERD-SIRE PRINGE ONA
Five dams av. 1186 lbs. butter and 24771 lbs. milk in fyr. Bulls all sold. State and Federal Supr.
A. FLEMING. Lake, Mich.

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

Our Farm Bureaus

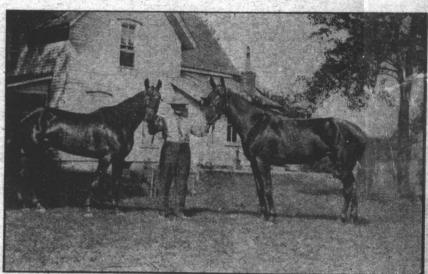
lines of breeding, both of which are of Tamworth swine. At present the recognized as among the best in the herd numbers about fifty head. For for producing Merino and Delaine prominent exhibitor at the state fairs ers could produce, provided they have many of the prize winners of the breed enough to sell on the carlot basis.

the most complete sets of farm build- other "show troups," he always manings and equipment for feeding cattle, ages to take in sufficient gate receipts sheep and hogs in Michigan. The Rey- (prize-money) to make the next week nolds' feed about sixty cattle, one thou- stand. And that is more than some sand sheep and one hundred and fifty of our other showmen always succeed hogs each year. This year they have in doing. As producers of choice bacon been practicing hogging and lambing and for use in crossing on the more down corn. The pigs and lambs make refined types of lard hogs the Tamgood gains and clean up the fields with worth has a definite place among the practically no waste of grain or forage. popular breeds of swine. The three big silos furnish a lot of good feed for the winter.

ers in Hillsdale county is J. M. South- of the early settlers in the county. The farm a few miles from Allen. The is still in good shape. Mr. Freach is herd numbers about thirty-five head of one of the pioneer sheep feeders of the Scotch and Scotch-topped animals. The state. In discussing the business he herd sire, Valiant's Lad, is a remark said: "I have always managed to make ably good individual and was bred by a profit from feeding lambs for market. Rosenberger of Ohio. Mr. Southworth Some years prices have been disapalso breeds Percheron horses. Always pointing, but the man who feeds a active in promoting the breeding of bunch of good lambs each year is sure

breed. Few regions are better adapted many years Mr. Adams has been a sheep than Michigan and there would and live stock exhibitions. During the be no trouble in finding a good outlet fourteen years he has been breeding for all the good ram lambs that farm- Tamworth swine he has produced and pulled down hundreds of dollars of prize money. Mr. Adams knows the FEW miles from Osseo we visited breeding and showing game from A to A FEW miles from Osseo we visited because the members of his "road the three hundred acre farm and Z and while the members of his "road the three hundred acre farm and Z and while the members of his "road the refine." stock feeding plant of Andrew Rey- troup" may lack some of the refinenolds & Son. Here we found one of ments of form commonly found among

A few miles south of Hillsdale we made a short stop at the farm of John One of the leading Shorthorn breed- French. Mr. French's father was one worth, who owns and operates a fine present barn was erected in 1850 and better live stock in Hillsdale county, to come out a winner during a series



Andy Adams at Home.

he has been one of the leaders in con- of years. It is a business that one tion at Hillsdale.

Cutcheon & Sons. Here we found a fer sheep to other kinds of live stock." bred prices; the main product is but. Edgewater, who produced made it possible for the McCutcheons ally and kept in good condition. to maintain and increase the fertility A few miles from Pittsford we visithave turned the trick.

ducting the sales of the Southern must follow each year. On our farm Michigan Shorthorn Breeders' Associa- we keep a flock of sheep and buy some lambs to feed out during the winter. We ship our lambs to the Buffalo mar-A NOTHER pleasant and interesting ket. We are farming and grazing about visit was at the farm of A. J. Mc- three hundred and fifty acres and pre-

herd of fifty pure-bred Jersey cattle of Over at North Adams, J. M. Wliliams St. Lambert, Raleigh and Flying Fox owns and operates two good farms and lines of breeding. The farm consists breeds Guernsey and Holstein cattle. of three hundred and thirty-five acres At the head of the Guernsey herd of and the cows are kept as strictly a eighteen females is Fillmere's Royal dairy proposition and no effort has Regent, a son of Prince Regent of been made to sell the stock for pure. Meadowbrook and out of Topsy of ter, which is made on the farm and pounds of milk and 560.58 pounds of shipped to New York. About one hun- butter at two years of age. She is a dred hogs are fed out each year, but granddaughter of Imported Golden during the past two years the firm has Secret, sire of eighteen A. R. daughbeen working into pure-bred Duroc ters. Most of the females in the herd Jerseys and expect to go ahead and are of the May Rose line of breeding. develop one of the good herds of the Mr. Williams also has a herd of excelcounty. Another department of the lent Holstein cattle. The day we visitfarming that pays substantial profits ed the farms he was out of town, conis the flock of several hundred White sequently it would be useless to dis-Leghorn hens. Butter, eggs and pork cuss further the breeding of the animake up a line of products that has mals. Both herds are good individu-

of their farm and at the same time add ed the three hundred and fifty acre a respectable sum to their bank ac- farm of Elisha Bailey & Son and lookcount each year. Cattle, hens and hogs ed over their herd of forty pure-bred Holstein cattle. Bailey & Son have a Just outside of Litchfield we visited splendid farm and equipment for hand-

ling their stock. The females in the herd are bred along Hengerveld De Kol and Pontiac Korndyke lines. During the past two years the firm have made some very good records in their official test work, and animals from the herd have been sold to buyers from eastern states at long prices.

Another Duroc Jersey swine breeder near Waldron who is making good in the game is Harry Cramton, Mr. Cramton was not at home when we visited his farm, but we looked over the hogs and found them of good quality. The herd sire is of Oakland Orion breeding and an excellent individual. The sows are large typy animals with strong backs and built on foundations that will support great weight. The spring pigs showed plenty of quality and were a good growthy lot. A real good herd

Mr. Hoffman has about sixty animals in his herd at the present time. One particularly good individual is the young herd sire, a son of Lord Clansman and out of F. E. Haynes' crack sow, Nemo Lady. This young boar has a wonderful arched back and stands up well on his toes. The other boar is a grandson of Big Des Moines. Among the brood sows are a number of good ones from popular lines of breeding. Mr. Hoffman has a good farm and is in a position to produce of course, the head should not be used. high-class hogs.

M. G. Mosher & Sons own and oper ate a splendid one hundred and ninety acre farm in Adams township and breed Berkshire hogs, Holstein cattle and Hampshire sheep. An excellent foundation has been laid with all three breeds and the firm is sure to be heard from in the near future.

Among the men who were active in putting over the farm bureau drive in Hillsdale county there was no more faithful worker than J. C. Gear, of Amboy township. Mr. Gear owns and operates a good farm and breeds Shorthorn cattle. He is one of the real farm leaders of the county and has been of great assistance in getting the work under way. Mr. Gear was the choice of many farmers for a place on the executive board of the County Farm Bureau, but could not serve because of holding another public office.

The Circuit Rider wishes to thank F. E. Haynes and John Bowditch for piloting him among the stockmen. After the smash-up in County Agent Sim's universal car these two gentlemen came to the rescue next morning. The day proved one of the most interesting and instructive spent in any county in the past season.

TO ENCOURAGE CONSUMPTION OF

A meeting of producers of all kinds of live stock will be held during the International at the Assembly Room, Saddle and Sirloin Club, Union Stock Yards, Chicago, on Thursday, December 2, at 1:30 p. m., to inaugurate a campaign to counteract the widespread propaganda that is now being circulated, and which is calculated to decrease meat consumption.

CROPS IN HIGHWAY.

Do berries and nuts growing in the roadway belong to the owner of the land? If not why is it that other crops such as potatoes are grown in the roadway and belong to the farmer? -G. L.

Any person using the highway for any purpose other than travel is a trespasser. The adjoining owner owns to the center of the highway subject to the easement of public travels; and is therefore the owner of the trees, grass, etc., growing in the highway, and has a right of action against anyone injuring it more than is naturally occasioned by public travel.—J. R. R.

Veterinary

CONDUCTED BY DR. W. C. FAIR.

Advice through this column is given free to our subscribers. 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.

Eczema.—Our four-year-old mare has Eczema.—Our four-year-old mare has skin diseases which causes great itchiness, especially when she perspires. J. B. D., Onsted, Mich.—Occasionally wash her with soap and water. Apply one part coal tar disinfectant and twenty parts water twice a day. In cool weather dust on flowers of sulphur and cut out other treatment. phur and cut out other treatment.

Some Blood in Milk.—Some eight weeks ago my cow came fresh, second a good growthy lot. A real good herd that is sure to be heard from within the next few years.

Over near Hudson we visited the farm of John Hoffman, popular breeder of Poland China swine, and auctioneer. or hooked by another cow are all common causes of cows giving bloody milk. Apply fluid extract of witchazel twice a day.

Lumpjaw.--My two-year-old heifer Lumpjaw.—My two-year-old heifer has a hard bunch on jaw which is increasing in size. I am inclined to believe it is lumpjaw. Is there any cure for it, and is my other stock likely to become infected? J. L. O., Clarksville, Mich.—When the bone is affected and bunch cannot be removed the care. bunch cannot be removed the case should be considered as incurable. No the ailment is neither infectious or contagious. Market her for beef, but

Barrenness .- My three-year-old cow freshened last year, bred her again, she aborted during the summer. She she aborted during the summer. She comes in heat every week or ten days, but fails to get with calf. Had she better be sold for beef? A. E. J., Kalamazoo, Mich.—Doubtless she will prove unprofitable for dairy purposes, perhaps never get with calf; therefore you had better fatten and dispose of hear to the butcher.

you had better latten and dispose of her to the butcher.

Mouth Allment.—Have a cow that freshened May 1; two weeks later she commenced to drop saliva and slime from her mouth, occasionally corrup-tion runs from nostrils and when she drinks part of water drips from mouth. Food packs in one side of mouth every time she chews. L. Y., Lachine, Mich.

—If you will make a careful examination of the mouth, you will perhaps find a diseased tooth, or foreign body which, when dislodged, the cow will recover. Giving her drugs will not help

Cows Fail to Come in Heat.-I have three cows that fail to come in heat, but they are seemingly healthy. H. E. R., Maple City, Mich.—Give each cow half a dram of ground nux vomica and two drams of ground capsicum at a dose in feed twice a day until they come in heat

Indigestion-Worms-Have an eightyear-old mare, weight 1,400 pounds, that eats plenty of food, but fails to lay on flesh. She is thin and weak, passes a few worms. A. M. H., Grawn, Mich.—Her molar teeth may require floating. Give her one dram of ground nux vomica, one dram of powdered sulphate of iron and a tablespoonful of powdered gentian at a lose in feed two or three times a day. Increase her grain ration.

Sprained Fetlock Joint.—About eight weeks ago my mare sprained ankle joint; have applied blister, but she is no better. A. S., Linden, Mich.—Give her rest and apply equal parts tincture of cantharides, two parts turpentine, and five parts raw linseed oil to fet-

and five parts raw linseed oil to fetlock joint twice a week.

Pinworms.—Will you please tell me
what to do for a horse that is troubled
with pinworms. A. D. W., Holland,
Mich.—Purchase one pound of quassia
chips, make a strong tea, then wash
out rectum daily for a few days. One
part coal-tar disinfectant and fifty
parts water is also a useful remedy.

Lumpy Jaw.—What is the cause of
lumpjaw? If the fiesh of such an animal is unfit for food, can it be safely
fed to fowls? C. G., Jeddo, Mich.—
The cause of lumpjaw is a thread-like
fungus, its common name being the

"HANES"—the national nameplate on underwear is an unfailing guide!



Read Hanes Guarantee:

We guarantee Hanes Underwear button. We guarantee to reand button. We guarantee you a turn your money or give you a new garment if any seam breaks,"



UNDERWEAR

Buy "Hanes" winter underwear for men on the strict business basis of the most unusual quality, comfort and service ever sold at the price!

Every garment bearing the "Hanes" national nameplate re-turns in wear and in absolute satisfaction far more than you pay for it. Our guarantee is your safeguard. It proves our faith in "Hanes"!

HANES" underwear is made in heavy weight and medium weight Union Suits and heavy weight Shirts and Drawers. The new medium weight Union Suit carrying the yellow label, meets the demand of men who prefer a medium weight union suit. It is made of full combed yarn and silk trimmed.

"Hanes" for Boys

This extra-value underwear duplicates the men's Union Suits in all important features with added fleeciness.

Made in sizes 20 to 34, covering ages 2 to 16 years. Two to four year old sizes have drop seat. Four desirable colors.

See "Hanes" Underwear at your dealer's. If he cannot supply you, write us immediately.

P. H. Hanes Knitting Co., Winston-Salem, N. C. New York Office Next Summer-You'll want to wear Hanes Nainsook Union Suits!

NOTICE

The Winwood Herd

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

JOHN H. WINN, (Inc.) Michigan Roscommon,

OUR HERD SIRE Model King Segis Glista

By a 30 lb. son of Lakeside King Segis Alban De Kol. His dam Glista Fenelle 32,37 lbs. Her dam Glista Ernestine 35,98 lbs. His three nearest dams average over 33 lbs and his forty-six nearest tested relatives average over 30 lbs. of butter in seven days. Write for prices on his sons.

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

The Traverse Herd

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

TRAVERSE CITY STATE HOSPITAL Traverse City, Mich.

Superior Holsteins

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

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

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

A. W. COPLAND

Birmingham, Mich. Herd under state and federal supervision

Segis Pietertje Gilt Edge Ormsby

Born Aug. 9, 1919. Every dam in the first 4 generations has a good 7 day record and each of these, excepting two in the fourth generation has a good yearly record. Three WORLD records. If you want individuality, and breeding, backed by both long and short time records, don't look farther. And he is some bull too. Herd under Government Supervision.

L. E. CONNELL, Fayette, Ohio

Holsteins of Quality

for sale, Heifers from 8 to 24 monts old. All registered and sold subject to tuberculin test.
E. A. HARDY, Rochester, Mich

Buy a "milk" Bull of Quality from the Breeders of the world's only cow to produce 800 lbs. milk, in 7 days, having an 800 lb. daughter.
Bull advertised last week was bought quickly by an Allegan County Dairyman.
Here's another "Top Notcher":

King Colantha Genieve Pietertje,
No. 272177. Born Feb. 3 1019

King Colantha Genieve Fietertje,
No. 272177, Born Feb. 3, 1919.

Sire's dam a 30 lb. cow with a 31 lb. daughter,
who has a 31 lb. 4 yr. old daughter.
Dam's iecord:—Butter 7 days 23.26 lbs.at 4 yrs.
Dam's sire's three nearest dams average 30.87
lbs. butter in 7 days. Color: about half and half.
Price \$150.00 f o. b. Howell,
McPherson Farms Co. Howell, Mich.
All herds under U. S. Supervision.

Hatch Herd

(In Government Accredited list) offers young registered sons from 34 lb. King Korndyke Sadie Vale bull for \$150 to \$250.

DOUBLE DISPERSION

H. CHRIS. HANSEN FARM

2½ Miles Northwest of

LANSING, MICH.

THURSDAY, NOV. 24, 1920

41 Registered Holstein Cows and Heifers 41

The Hansen herd of 17 head, 9 of which are in calf to Model Glista King Segis, will be sold without reserve. There will be 2 heifer calves from this great sire and a yearling bull from a good record

Two daughters of King Segis Model from granddaughters of King Hengerveld Palmyra Fayne. Several A. R. O. cows and heifers from A. R. O. dams.

The A. E. Chase herd of 24 females, headed by a good grandson of Pontiac Aaggie Korndyke, out of a 19 lb. 2 yr. old daughter of a 33 lb. cow. His dam and granddam have records averaging 968 lbs. butter and 22097 lbs. milk in 365 days. This herd includes 12 heifers sired by a son of Johanna Korndyke DeKol, sire of 48 A. R. O. daughters and a grandson of Belle Korndyke.

Both Herds under State and Federal Supervision and guaranteed free from tuberculosis. Sold with 60-90 day retest privilege.

Sale Managed By

Michigan Holstein-Friesian Association,

H. W. Norton Jr., Field Sec'y. Old State Block, Lansing, Mich.

EATON COUNTY HOLSTEIN BREEDERS' FIRST ANNUAL SALE NOVEMBER 23, 1920

AT FAIR GROUNDS, CHARLOTTE, MICH.

60 head of choice registered cows and heifers mostly due to freshen this fall and winter and bred to thirty pound bulls, also 3 good A. R. O. bulls ready for service.

Sale starts at 11 o'clock. Meals served at Fair Grounds.

Auctioneer Col. D. L. PERRY R. Austin Backus In The Box

For Information and Catalog, Write

A. N. Loucks, Secy, Charlotte, Mich.

AUCTION SALE OF STOCK AND TOOLS

The Westview Duroc Farm 2 miles south 1-2 mile east of Northville or 1 mile north 1-2 mile east of Plymouth, will sell at Auction Stock, Tools and

50 HEAD OF DUROC JERSEY SWINE 50

Consisting of two herd boars, seven spring boars, 3 bred sows, open sows, gilts and fall pigs. Herd boars used in herd. Cherry Premier 2nd No 102819, by Pal's Cherry Orion No. 82089, by Pal Qrion. Home Farm Tippy Orion 3rd No 152141, by Brookwater Tippy Orion by Tippy Col., Gibson Taxpayer 2d No 156677, by Brookwater Taxpayer, a fine bunch of sows and gilts, a good time for the boys to start in the best of blood lines. Come to the sale and bring the boys along.

Tuesday, November 23, 1920

Albert Ebersole, Prop., Plymouth, Mich.

The Frankenmuth Spotted Poland China Breeders Association of Frankenmuth Twp., Saginaw County, Mich., will sell at

PUBLIC AUCTION ON DEC. 3rd, 1920

on Alfred Grueber's Farm, two miles east and two miles north of Frankenmuth Junction at 12 o'clock noon. 40 head of Registered Spotted Poland China Hogs, tried and bred, open and bred gilts and a few boars. The tops of 3 herds will be sold at this sale. Catalog will be sent free upon request.

ALFRED GRUEBER, Secretary

Frankenmuth, Mich

JERSEYS produce the best milk earlier, longer and most economically. They thrive under all conditions, are always willing to work, and breed true to type. Jerseys save you many years in building a profitable dairy herd.

Ask the Jersey Information Bureau for any cow information you want and also for "Jersey Facts" and "The Key to Dairy Profits,"

THE AMERICAN JERSEY CATTLE CLUB 324-R West 23rd St., New York An Institution for the Benefit of Every Jersey Owner



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

ALL THREE are working to a common purpose—to in-rease the production of Michigan Dairy herds. We believe all three should work together. We feel sure that no Michigan bull has ever been better quipped for the work. We have it on high authority that there are none better dividually.

with a wind authority that there are none optier-dividually. His three nearest dams each averaged to produce 100 lbs, atter and 2100 lbs, milk per month for a full lactation perd with an average of 3.8% fat.

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

ten months.

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

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

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

A son of this great young sire suited to head any herd in Michigan, grade or purebred, can be secured in Genesee County and we want them all to stay in Mirhigan. Write us about your herd, tell us what you need and what you feel you can afford to pay and let us help you find just what you want in Genesee County, the center of Michigan's long distance dairy cattle.

Genrida Farm

Elmcrest Stock Farm G. L. Spillane & Son Co. Clio, Mich.

Offers the best selection of young bulls from 8 to 12 months we ever raised; out of dams up to 29.76 for aged cows and over 26 lbs. for 2 yr. olds. Yearly records up to 24000 lbs. milk and 1000 lbs, butter. Sired by our Senior Herd Sire, Maplecrest Application Pontiac, whose dam made 35 lbs. butter in 7 days and 1344 lbs. butter and 23421 lbs. milk in a year, or by Dutchland Kongen Sir Rag Apple, our Junior Herd sire, whose dam is 30 lb. 10 yr. old maternal sister of Dutchland Collans as 30 lb. 20 yr. old maternal sister of Dutchland Collans and 2421 lbs. milk in 1 year. Several carry the blood of both these sires.

They are extra well grown, straight and right. One

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

Send for pedigrees and prices

R. Bruce McPherson, Howell. Mich.

\$100

Registered Holstein Bulls

Best blood in America. Ready for service, grandson of King of the Pontiacs. Herd sire King of the Pontiac Segis.

Herd under State and Federal Supervision. JAMES B. JONES FARMS ROMEO, MICH.

Federal Accredited Old anough for service. Dams records, 7 da. milk 467.80, butter 20.85, 305 da. milk 16,115.3, butter 648. She has 2 A.Pk. O. daughters. His sire a 24 lb. grandson of Colarba Johanna Lad. Price \$200. Write for particulars.

HOLSTEINS 2 purebred, bull calves, ex-gave over 14000 lbs. last year milked but twice a day. Dams very large and heavy milkers, bred right, 40 and 55 dollars, Guaranteed to please. B. E. KIES, Hillsdale, Mich.

Registered Holstein Bull Born Dec. 19, 1919. Sire a son of King Ona. His dam is a 21 lb. daughter of a 21 lb. cow. Price \$30 delivered your station. Write for pedigree.

EARL PETERS, N. Bradley, Mich.

\$75 gets 6 weeks old gdson of Maple Crest Koru Heng.

\$75 and Filmt Heng. Salina 47.09 butter 551.2 milk
in 7 days. Calf's dam is my best untested cow. Terms.

M. L. McLAULIN, Redford, Mich.

Reg. Holstein-Friesian Bulls ready for service and priced to sell. Light in color and richly bred.

B. B. REAVEY. Akron, Mich.

Your Choice of 20 high grade young Holstein cows due this fall and winter.
HARRY E. COVERT, Leslie, Mich.

Herefords Double Disturbe Offer 5 2-yr olds, Herefords Offer 5 2-yr olds, bred, 9 yearling and 5 heifer calves. Fairfax breeding. Bulls any age.
EARL C. McCARTY, Bad Axe, Mich

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

BUTTER BRED JERSEY BULLS
FOR SALE
Silver Creek, Allegan County, Michigan.

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

For Sale Jersey bull calves of Majesty breeding from ment "Accredited List." Write for price and pedigree to C. A. TAGGETT, R. 2, Fairgrove, Mich.

Lillie Farmstead Jerseys 2 R. of M. bull calves
C. C. LILLIE, Coopersville, Mich

Young Man A-Hoy!

What is it?

stop breeding those scrubs.

Get a pure bred sire.

Jersey Bulls are noted for their prepotency.

Jersey Cows For their early maturity, long life, economical production.

Write Secretary Henrickson of Shelby, Mich., for free Jersey literature. Do it now.

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

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

Claradale Milking Shorthorns

Are Officially Supervised by Michigan Agricultural College. The two year old Fancy Duchess Maid 8,336 lbs. milk, 378 lbs. fat, 4.55 percent average, Rose Mist 8,709 lbs. milk 25 lbs. fat, 4.75 percent average, Fancy Ring 7720 lbs. milk 287 lbs, fat 8 mos. Peri Duchess 72th 6864 lbs. milk 227 lbs, fat 8 mos. Peri Duchess 72th 6864 lbs. milk 227 lbs, fat percent 4.21, 2°d caif. We have other good cows under state supervision, our records are made under every day farm pasture conditions twice a day milking only. We can price you buils from 2 months to two year olds, Sired by the the Great Bulls Lord Burrington 5th and Green Leaf Master Imp. Your success is our success. Come and see us, or write your wants to

F. W. JOHNSON, Box 26, Custer, Mason Co., Mich.

SHORTHORNS BUY A BULL

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

BIDWELL STOCK FARM, Tecumseh, Michigan

The Maple's Shorthorns

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

Milking SHORTHORYS. Clay bred bull calves Herds under Federal Supervision. Davidson & Hall, Beand & Beland, Tecumseh, Mich

Richland Shorthorns

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

C. H. PRESCOTT & SONS,

Tawas, City, Mich.

BRANCH COUNTY FARM

American Polled Shorthorn Cattle

bred cows and helfers. Herd headed by Victor Sultan and Sultan's Gift. Prices very reasonable, write your wants. Geo. E. Burdick, Mgr., Coldwater. Mich.

Maplewood Shorthorns
Two bull calves of good milking dams and sired by
our herd bull, Maplewood Jeweller, both calves are
splendid individuals. Harfer & Easton, Jenison, Mich.

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

n

M EADOW Hills Shorthorns Herd headed by Stilver King, full brother of Lavender Sultan Purdue University's great size. For sale females of alages, a few young bulls. Geo. D. Doston Doston, Mich.

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

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

A T the second state Holstein-Friesian sale held at Jackson, October 19, the following animals sold for the following prices:

Consigned by Traverse City State Hospital, Traverse City, Mich.:

Hospital, Traverse City, Mich.:

Traverse Segis Johanna Hartog, to E. G. Stevenson, Ontario, \$4,000.

Traverse Ninetta, to Edward Wagner, Wheeling, W. Va., \$300.

Traverse Walker Duchess, to Edw. Wagner, Wheeling, W. Va., \$430.

Traverse Korndyke Girl, to E. G. Stevenson, Ontario, \$1,000.

Traverse Inka Korndyke, to E. G. Stevenson, Ontario, \$825.

Traverse Ninnetta Segis, to E. G. Stevenson, Ontario, \$725.

Traverse Clothilde 2nd, to Milan L. Cook, Ithaca, Mich., \$440.

Traverse Duchess Hengerveld 2nd, to Edward Wagner, Wheeling, W. Va., \$320.

Consigned by Robin Carr, Fowler-ville, Mich.: Rainbow Hengerveld De Kol Mere-dith, to Michigan School for the Deaf, Flint, Mich., \$600.

Female born January 1, 1920, to Wm. Gibson, Fowlerville, Mich., \$230. Consigned by R. J. Bird, Ypsilanti,

Elzevere Rag Apple Butter Girl, to Bazley Stock Farm, Ypsilanti, Mich,

Consigned by F. S. Jenkins & Son, Eagle, Mich.: Beach Segis Pontiac Queen, to E. G. Stevenson, Ontario, \$800.

Consigned by Sinlinger Bros., Lake

Odessa, Mich.:
Female, born April 7, 1920, to Boardman Farms, Jackson, Mich.: \$330.
Alcartra Pontiac Elzevere Vale, to Michigan School for Deaf, Flint, Mich.,

Consigned by Lake Side Dairy, Lake Odessa, Mich.:

Weedie Canary De Kol, to Boardman Farms, Jackson, Mich., \$410.

Consigned by Wm. R. McDonough, Howell, Mich.: China Pontiac Champion Mobile, to Colver Farms, Colver, Penn., \$270.

Consigned by F. S. Taylor, Adrian,

Ophelia Segis, to C. E. Winne, Adrian, Mich., \$410.

Consigned by Musolff Bros., South Lyons, Mich .:

Urmagelsche De Kol Hartog, to Edward Wagner, Wheeling, W. Va., \$280.

h.

ward Wagner, Wheeling, W. Va., \$250.
Segis Glenburnie Pieter, to Edward
Wagner, Wheeling, W. Va., \$250.
Artis Ona, to G. L. Spillane & Son
Co., Flint, Mich., \$400.
Sir Pieter Korndyke Lyons, to W.
L. Rundell, Saline, Mich., \$700.
Belle Bernardo Segis Pieter, to W.
L. Willerstiff & Son Plymouth, Mich.

Wernett & Son, Plymouth, Mich. \$500.

Segis Pieter Butter Girl, to E. M. Starkweather, Northville, Mich., \$500. Butter Maid Segis Pieter, to W. H. Wernett & Son, Plymouth, Mich., \$700. Alfalfadale Pontiac Sue 2nd, to John Hehl, Detroit, Mich., \$200. Stoneacre Lunde Pontiac Canary, to

M. Starkweather, Northville, Mich.,

Aaggie Texal Segis Pieter, to Michigan School for Deaf, \$1,100.
Consigned by John P. Hehl, Detroit,

Count Veeman Hengerveld De Kol, to J. M. Williams, North Adams, Mich.,

\$500.

King Thyrsa De Kol K. K. S., to M. J. Roche, Pinckney, Mich., \$325.
Consigned by A. W. Copeland, Birmingham, Mich.:
Strawberry Creamelle Korndyke, to Michigan School for Deaf, Flint, Mich., \$200

Pieterje Creamelle, to Michigan School for Deaf, Flint, Mich., \$440. Zilla Winona 2nd, to James Nye & Son, Pontiac, Mich., \$360 Consigned by J. A. Campbell & Son,

arma, Mich.: Ann De Kol Segis Polkadot, to Wernett & Son, Plymouth, Mich.,

\$300 Consigned by Myers Brothers, Adri-

an, Mich.:
Grandview Ormsby Segis, to Michigan School for Deaf, Flint, Mich., \$810.
Consigned by Vernon Clough, Par-

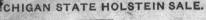
Netherland Helen Marshall, to E. G. Stevenson, Ontario, \$460 Consigned by E. E. Sturgis, St. Johns, Mich.:
Lady Houwtje Hengerveld Korn-

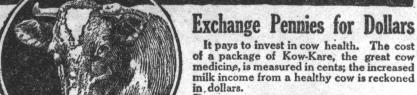
Lady Houwtje Hengerveld Korn-dyke, to M. J. Roche, Pinekney, Mich.

Pieterje Anza Burke, to Mark H. Pip-Piper, Flint, Mich., \$205.

Beryl Pieterje Wayne, to Mark H. Piper, Flint, Mich., \$310.

Continued on page 651).





Kow-Kare enjoys a quarter-century record of leadership in the prevention and successful treatment of all cow ailments due to weakened digestive or genital organs, such as Barrenness, Retained Afterbirth, Lost Appetite, Scouring, Bunches and Abortion. The Kow-Kare treatment is inexpensive but produces prompt and visable results. One trial will

DW-KARE Buy Kow-Kare from feed dealers, general stores or druggists.

DAIRY ASSOCIATION CO.

LYNDONVILLE, VT.

NOTE: The Trade-mark name has been changed from KOW-KURE to KOW-KARE—a name more expressive of BOTH the PREVENTIVE and CURATIVE qualities of the remedy. There is not the elightest change in formula or manufactura.

MICHIGAN LIVE STOCK INSURANCE COMPANY

INDEMNIFIES Owners of Live Stock - Horses, Cattle, Sheep and Hogs Against Death by Accident or Disease

308 Davidson Building,

70¢ and

40

- 197-

Bay City, Michigan

REG. BELGIAN

AT AUCTION On my Farm at Vestaburg East, 80 rods N., 1-2 mile from the P. M. Depot on the R. R. between Alma and Edmore Michigan,

WEDNESDAY, NOVEMBER 24, 1920

It includes my Imported Stallion Mouton deNil No. 2937 American, 497 Foreign. Bay with black points 90 per cent of his Colts are Bay.

La Veta Bay 4 years old No. 5763. Bred by Mouton deNil. DeaCeal Roan 4 years old No. 5764 Bred by Mouton deNil 7 months Fillie Boy from La Veta and Mouton deNil. I will pay R.R. fare to the man that Buys.

Jake Hilman, Auctioneer.

Roy Marsh, Prop.

I. C. BO

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

J. CARL JEWETT,

Mason, Mich.

Duroc Jerseys Boars Boars of the large heavy bonned type at reasonable prices. Write or better come and see F. J. DRODT, Monroe, Mich.

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

Write Me at once I have just what you want heavy bone registered Durco Jer-

sey boars ready for service. W. H. MAYES, L. B. 505, Durand, Mich.

DUROC JERSEYS
Carey U. Edmonds, Hastings, Mich.

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

PLEASANT View Durocs. Choice spring boars and gilts. Come and see or get our price before buying. W. C. BURLINGAME & SON, Marshall, Mich.

DUROC Jerseys, July and Sept. farrow, either sex, 15 to 25 dollars, satisfaction or B, E, KIES, Hillsdale, Mich.

Raise Chester Whites

Like This

CATTLE?

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

NEWTON BARNHART, St. Johns, Mich. Red Polled cattle for sale bulls from 4 to 18 mos. also cows with calves by side and heifer's.

G. A. CALHOON, Bronson, Mich.

DUROCS spring boars. A few gilts bred for Sept. farrow at bargain prices, W. O. TAYLOR, Milan, Mich. Reg. Red Polled cattle choice young bulls from 6 to 18 mo. old for sale.
FRANK KEBLER, R. 1, Grand Ledge, Mich.

Reg. Red Polled Bull caives for sale, from 3 mos. to grand son of Charmer 1919 International Grand Cham-pion. WESTBROOK BROS. Ionia, Mich.

HOGS

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

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

Brookwater Duroc Jerseys

BOARS—Ready for Service

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

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

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

BROOK WATER FARM

ANN ARBOR, MICHIGAN

H. W. Mumford, Owner J. B. Andrews, Mgr.

DUROC JERSEY SWINE

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



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

Phillips Bros, Riga, Mich. For Sale Duroc Jerseys of the big heavy boned type.
OHAS. BRAY. Okemos, Mich.

the original big producers HAVE started thousands of breeders on the road to success. I can help you. I want to place one hog from my great herd in every community where I am not already represented by these fine early developers—ready for market at six months old. Write for my plan—"More Money from Hogs.

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

G. S. BENSAMIN, R. F. D. 10, Fortland, Michigan

Big Type Chester Whites Spring boars sired by Wildwood Jr. 2nd. Hill's Big Bone, Col. Wykoff, Smith's Giant and Champion X Jr. and out of good big dams. Cholera immune and satisfaction guaranteed. Also fall pigs, either sex, not related.

N. L. HILL, Jr., Mackinaw, Ill, Tazewell, Co.

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

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

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

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

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

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

NEWMAN'S STOCK FARM,

R. 1, MARLETTE, MICH.

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

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

O. I. C. Serviceable boar's. A few extra good boars at farmers' prices.
H. W. MANN. Dansville, Mich.

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

O. I. C's 2 March boars 30 each. Fall pigs by C. C. Big Calloway. C. J. THOMPSON. Rockford, Mich

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

Large type Poland China's spring boars ready to A. A. FELDKAMP. R. No. 2, Manchester, Mich.

Poland Chinas

Spring boars and gilts from the Sr. Champion boar at the State Fair at Detroit this year also Grand Champion at West Mich. Fair at Grand Rapids weighing 1925 lbs.

If you want something that will give you satisfaction let us sell you a boar or gilt.

ALLEN BROS., Paw Paw, Mich.

L. S. P. C.

Everything sold previously ad. 25 spring pigs placed on the bargain counter for mo. of Sept. pairs or trios not akin.

H. O. SWARTZ, Shoolcraft, Mich.

Big Type Poland Chinas

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

Poland China Special pig sired by Hover's Glant 129275 and from our best sows are the best we ever offered. Write for particulars. DORUS HOVER, Akron, Mich.

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

O. E. GABNANT, Eaton Rapids, Mich am offering Large Type Pol and China Sows, bred to F's Orange, at reasonable prices; also fall pigs. Write or Call Clyde Fisher, St. Louis, Mich. R.R.3. Duroc Boars ready for service. Sired by Jacks Cherry Orion King number 169259 son of the \$10,000,00 Champion Jacks Orion King 2ndfall large type and heavy bone out of good sows.

THE JENNINGS; FARMS, Bailey, Mich.

My! Oh My! What An Opportunity We are now offering a few choice big type Poland China Boars, from Big Smooth Jones, one of the breeds best sires, from dams by such noted sires as Grand Master, Hillcrest Wonder, Mastadon Wonder and Hillcrest Bob.

You can't get better breeding. Individually they will please you. Price \$50 00.

HILLOREST FARM, Kalamazoo, Mich.

L. T. P.

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

Duroc Jerseys of the right type, good blood at a price you can afford to pay Guaranteed to suit you. W. E. Bartley, Alma, Mich. Big Type Poland Chinas with quality, at resonable prices. Pigs of both sex, and bred sows and gilts. G. A. BAUMGARDNER, R. 2, Middleville, Mich.

Big Type P. C. a few first class, 200 lb. boars left also some fall boar pigs good enough to head any herd. Come and see or write,
E. R. LEONARD, R. 3, St. Louis, Mich.

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

L. T. P. C. Spring boars and gilts now ready price. W. J. HAGELSHAW, Augusta, Mich.

Edgewood Hampshires

Lagewood Hampshires

Bright Street Control of the Control of

HAMPSHIRES spring boars and fall pigs at a bargain, book your order now for bred gilts JOHN W. SNYDER, R. 4, St. Johns, Mich.

SHEEP.

Delaine Rams B. & C. type, having size, quality, best of breeding, priced to sell, write.
S. H. SANDERS, R. 2, Ashtabula, O.

WHITTUM FARM SHROPSHIRES A fine lot of imported and house bred yearling ewes and rams for sale. A fine chance to start a new flooks or improve the old one call at the farm or write for just what you want.

Ö. H. WHITTUM, Eaton Rapids, Mich.

Hillcrest Shropshires A nice lot of Ewes and Rams of all ages our flock is headed by McKerrow 3164 a son of Senator Bibby write or call on R. J. & C. A. WILLIAMS, Middleville, Mich.

Additional Stock Ads. on Page 651

BOUND OF SERVICE OF SERVICES O

GRAIN QUOTATIONS

November 17, 1920.

Wheat.
Detroit.—Cash No. 2 red \$2.10; December \$2.04; March \$2; No. 2 white and No. 2 mixed \$2.08.

Chicago.—No. 1 hard \$1.95½; December \$1.87½; March \$1.77½.

Corn. Detroit.—Cash No. 2 mixed 91c; No.

2 yellow 96c. Chicago.—No. 2 mixed 84@85c; No. 2 yellow 86%c.

Oats.

Detroit.—Cash No. 2 white 57½c;

No. 3 white 56c; No. 4 white 54c.

Chicago.—No. 2 white 52½@53c;

No. 3 white 50½@52c. Beans.

Detroit.-Immediate and prompt are steady at \$4.50@4.60 per cwt.

Chicago—Market easy. Hand-picked beans choice to fancy \$4.75@5; red kidney beans \$9@950 per cwt.

New York,—Market continues dull. Choice pea \$5.90; do medium \$6@6.25; red kidney \$11 per cwt.

Rye. Detroit.—Cash No. 2 rye \$1.64.

Seeds.

Detroit—Prime red clover \$12.25;
December \$12.40; alsike \$16.25; timothy \$3.40.

Toledo. -Prime cash at \$12.25; December \$12,35; alsike \$16.50; timothy

WHEAT

Factors which ordinarily influence prices upward are no longer effective. The wheat situation statistically jus-tifies a stronger market but with bakers failing to buy flour in normal vol-ume while their higher-priced holdings are being absorbed millers have no or-ders upon which to base purchases of tent and only prominent upon pro-nounced declines. England, which is our chief buyer, purchased no wheat from July 29 to November 10, and af-ter making fairly large purchases on that day, the Royal Commission announced that it would not buy more except on a basis about 25 cents lower. Other European countries are buying in spite of weak exchange which be-trays their necessities. Germany's wheat crop is officially estimated at 88,000,000 bushels and rye 193,000,000 bushels against a five-year ayerage of 152,000,000 bushels of wheat and 400,000,000 bushels of rye. However, export sales and such news as that con-cerning Germany is not sufficient to give the market firmness in the ab-sence of domestic buying.

Total supplies of corn for the 192021 season including crop, carryover and visible supply, aggregates 3,351, 600,000 bushels, or 361,000,000 bushels more than last year. In 1912-13 the aggregate supply was 3,193,000,000 bushels which were consumed during the season. The quality of the corn crop this season is the highest known, being 7.7 per cent above the average. Feeders

Mixed steers and helical Handy light butchers

Light butchers

Butcher cows

Common cows

Canners

Choice bulls

Stock bulls

Stockers being 7.7 per cent above the average. Average weight of oats per measured bushel is 33.1 lbs; wheat 57.4 lbs; last year oats averaged 31.1 lbs, and wheat 56.3 lbs. This factor adds several million bushels to the feeding value of these grains. When it is considered that the total live stock population is ten or fifteen million greater than in 1912 the outlook for feed grains is not Market 1912 the outlook for feed grains is not so bearish as it may appear to be. Corn has yet to discount the effect of the new crop movement although it is getting under way, Chicago receiving Best lambs\$ at the close

OATS

Oat prices are dragging because of the big stocks in terminal markets which continue to mount. There is little likelihood of marked improvement in corn and oats prices for three months.

BUCKWHEAT

Weather has been more seasonable for buckwheat consumption, although

BUCKWHEAT

Weather has been more seasonable for buckwheat consumption, although

BEANS

Bean prices declined a trifle during the past week, influenced by general bearishness. Colder weather is helping the demand, although it remains far below seasonable volume. Growers refuse to sell on declines so that the outlook favors an advance. Michigan beans are quoted in carlots f. o. b. common shipping points at \$4.75 per 100 lbs. The latest returns put the crop at 9,364,000 bushels in six states compared with 11,488,000 bushels last year and 13,213,000 bushels as the average of the preceding six years. The strong statistical position eventually strong statistical position eventually should assert itself.

SEEDS

Instead of a reduction in the clover seed crop which was anticipated be-cause of abandonment of acreage the last government estimate was 1,593,000 bushels, compared with 1,099,000 bushels last year, 1,197,000 two years ago, and 1,488,000 three years ago. France and England have good crops, but Italy, another source of imports, is short. Prices declined during the week along with nearly everything else, but are still above pre-war levels.

FEEDS

Only minor changes took place in feed prices in spite of the fresh declines in feed grains. Some distribut-ing points show slight advances while others receded. Linseed meal which has been out of line with cottonseed wheat and the market is at the mercy meal lost more of its premium. Light of foreign demand which is intermit-production of mill feeds continue as tent and only prominent upon prostrongest supporting influence. Feed-

Market 25@50c lower.

Veal Calves. Market dull and 50c lower.

Hogs.

Market steady to 25c higher; pigs and yorkers \$13; mixed hogs \$12.75.

Sheep and Lambs.

Hogs.

Live Stock Market Service

6.00@ 4.00@ 6.25@ 5.00@

3.00@

5.75@

7.00@ 5.00@

3.50

ceipts are light. The south is buying much less than usual. The outlook does not suggest much higher prices, and lower prices for timothy and clover would not be surprising although holding by producers would offset this tendency for the time being.

Detroit.—No. 1 timothy at \$29@30;

Detroit.—No. 1 timothy at \$29@30; standard \$28@29; light mixed \$28@29; No. 2 timothy \$27@28; No. 1 mixed \$27@28; No. 1 clover \$27@28; rye straw \$14.50@15; wheat and oat straw \$13.50@14.

POTATOES

The government's report for November showed a slight increase in the potato crop to 421,000,000 bushels as against 358,000,000 bushels last year and 362,000,000 as the average of the preceding five years. The potato markets continue nearly steady to firm with price changes slight in most consuming markets. Shipments hold up to about 1,000 cars daily. Some Canadian potatoes are reported on the way. Numerous box cars of potatoes were dian potatoes are reported on the way. Numerous box cars of potatoes were frozen in the cold wave. Northern round white stock is quoted mostly at \$1.85@2 per 100 lbs sacked, f. o. b. Minnesota, Wisconsin and Michigan shipping points. At Chicago, Whites bring \$1.75@2.60 per cwt; at Cleveland Michigan round whites, 150-lb sacks \$3.50@3.60; Cincinnati, Michigan 3.75 @4 per 150 lbs; Detroit, Michigan at \$3.35@3.50 per 150-lb sack.

BUTTER

has been out of line with cottonseed meal lost more of its premium. Light production of mill feeds continue as strongest supporting influence. Feeding demand is expanding slightly but is still below the usual volume.

Chicago.—Brans \$37; standard middlings \$46; cottonseed meal, 41 per cent \$50; cottonseed meals, 36 per cent \$42; gluten feed continue as strongest supporting influence. Feeding demand is expanding slightly but at New York on Friday. The storage market has not done so well. While storage stocks on the four markets have moved fairly well the buying is largely of privately owned stocks rathmeals, 36 per cent \$42; gluten feed continue as strongest supporting influence. Feeding demand is expanding slightly but at New York on Friday. The storage stocks on the four markets have moved fairly well the buying is largely of privately owned stocks rathmeals.

the usual habit of stocking up for winter requirements is not noticeable. The market is mostly slow, though Chicago quotes it higher at \$2.50@3 per 100 lbs, while Milwaukee runs \$2.25@2.50. The November 1 returns indicate a crop of \$45; flour middlings \$54; coarse dence. Fine butter continues short of trade needs but sentiment favors holding prices in check so as to continue \$30,000 last year and an average of 15,305,000 during the preceding five years.

BEANS

BEANS

BEANS

BEANS

\$45; hominy feed \$42; old process oil show a wide range and buyers have been very critical. The chief trouble with this market is a lack of confidence. Fine butter continues short of trade needs but sentiment favors holding prices in check so as to continue grades have been clearing fairly well but some very low prices have been reported on real undergrades. Closing two firm with 92 score quoted at 62½c; Chicago does not suggest much higher prices, 65c New York; 60c at Boston, 64c at New York; 60c at Boston, 64c at Philadelphia.

EGGS AND POULTRY

Egg prices continue to favor the producer, the farm price for a dozen probably exceeding the value of a bushel of corn in most cases. There is a prospect of still higher prices because of the scarcity of the best grades. Texas has a big turkey crop but many other sections are below the average. Prices

were as follows: Chicago.—Eggs, fresh firsts 67@68c; miscellaneous 57@64c. Poultry, spring chickens 25½c; hens, general run, at 18@25c; roosters 22c; ducks 25@28c; geese 26c; turkeys 38c.

Detroit.—Eggs, fresh candled 68@

72c. Live poultry, spring chickens 25 @26c; Leghorns 20@22c; hens 25@26c; small hens 18c; roosters 18c; geese 25c; ducks 30@32c; turkeys at 35@36c.

CHEESE

Cheese markets at distributing cent-rs opened firm. When country marers opened firm. When country markets advance asking prices were generally raised on all markets. The aderally raised on all markets. The advance contracted demand and trading developed into exchanges of small lots for immediate needs. The markets held firm. Confidence is expressed in the situation as the demand is sufficient to clear current receipts fairly well. Eastern markets have had considerable declines in kalt see have had considerable declines in kalt see have been siderable dealings in held goods, prices being firm. Dealers generally are not using any more of their storage goods than they have to as they are now able to move fresh at a profit.

APPLES

Apple shipments decreased slightly but are still nearly up to 1,000 cars a day. Baldwins A-2½ continued steady at \$4.25 f. o. b. New York shipping points and \$4.50@5 in eastern consuming markets. Chicago was weak with Kings and Wageners quoted at \$4.50@5.25; Baldwins and Greenings \$4.25@5 and Jonathans \$8@8.50; Baldwins in Minneapolis reached \$6.

NEWS OF THE WEEK.

Cattle.

Market is dull, common thin grades practically unsaleable.

Best heavy steers\$ 10.00
Best handy wt bu steers 7.50@ 8.50
Mixed steers and heifers .7.00@ 7.25
Handy light butchers 6.00@ 6.50
Light butchers 6.00@ 6.50
Best cows (Continued from page 622). gallon by large oil companies.—The first hearing before the Kansas court of industrial relations at which employers are charged with curtailment of production in an essential industry is set for tomorrow

Monday, November 15.

BOLSHEVIK forces are reported to have taken Sebastopol and British have taken Sebastopol and British destroyers are now patrolling the Black Sea to prevent the Russians from communicating with Turkey.—
The French naval budget for 1921 amounts to over one billion francs.—Six children are killed and twelve persons seriously hurt when a false alarm of fire is given in a New York theater. cows, common, medium, good and choice \$4.25@10.25; bulls, bologna and beef \$4.50@9.25; canners and cutters, cows and heifers \$3@4.25; do canner steers \$3.50@5.50; veal calves light and handy weight medium, good and choice \$15.012 25.

Tuesday, November 16.

In the Greek elections early reports indicate that the government has lost in practically every province. good and choice \$4.25@8.50; stocker cows and heifers, common, medium, good and choice \$4@6.75;; western range cattle beef steers, medium, good and choice \$8@12.25; do cows and heifers medium, good and choice \$5.25 Refugees are fleeing from Crimea as General Wrangel's forces make their last stand before the Russian bolsheviks.—The entire crew of the ill-fated steamer Widlar has been safely landed at the Soo.—Turkish nationalist forces and the Armenian government have taken steps to bring about peace, the main issue being the fixing of boundaries. boundaries.

Sheep and Lambs.

17; do medium and good \$9.25@15.25; do common \$7.75@9.25; light weight 1100 lbs down good and choice \$12.25

@16.75; do common and medium \$7@ 12.25; butcher cattle heifers, common,

medium, good and choice \$4.50@12.50

choice \$15@15.25; feeder steers, common, medium, good and choice \$7@

10.50; stocker steers common, medium,

Estimated receipts today are 27,000. Market 25@50c lower. Lambs 84 lbs down medium, good, choice and prime \$10.50@12; do culls and common \$8@10; spring lambs, medium, good and choice \$8.25@10.25; ewes, medium, good and choice \$4.50@5.25; ewes cull and common \$2.50@4; breeding ewes, full mouths to yearlings \$5@7; yearling wethers medium, good and choice \$11.50@12.50. Estimated receipts today are 27,000. \$11.50@12.50.

BUFFALO

All classes of hogs sold here today (Wednesday) at \$13.75; lambs \$12.75 @13, and calves up to \$18.

COMING LIVE STOCK SALES.

Duroc Jersey.—November 23, Albert Ebersole, Plymouth, Michigan. Holstein.—November 24, Chris Hansen

Farm, Lansing, Michigan.

Belgian Horses.—November 24, Roy
Marsh, Vestaburg East, Michigan.

Poland China.—December 3, Alfred
Grueber, Frankenmuth, Michigan.

WOOL

M' More actual business was reported in the wool market circles the past week, but the prices are not flattering. About a quarter of a million pounds of choice Ohio delaine was sold outside of Boston at a clean basis of about \$1.23 for wools of 66's—70's grade, while Boston reports these wools at 50c in the grease. Montana fine and fine medium in the original bags at 30 @33c or about 90c clean basis, and Texas twelve months at 85c clean basis. is. Australian auctions report a firmer market on the fine staple wools, super 64's figuring about \$1.15 clean, landed at Boston. American buyers are fairly active, presumably trying to anticipate tariff legislation. Retailers are quot-ing lower prices in the effort to clear stocks. It will not be surprising to see the market become steady at around the present basis. Quotations, mostly nominal, as issued from Boston are as

Ohio and Pennsylvania fleeces.—De laine unwashed 50@52c; fine unwashed 38@40c; half-blood combing 42@45c; three-eighth-blood combing 37@ per pound.

Michigan and New York fleeces.— Fine unwashed 38@39c; delaine un-washed 48@50c; half-blood unwashed 42@44c; three-eighth-blood unwashed 36@38c

Wisconsin, Missouri and average New England.—Half-blood 40c; three-eighth-blood 32@34c; quarter-blood 28

FARM BUREAU MARKET REPORT

Elevator exchange business is very Elevator exchange business is very good. Dealers are filling postponed requirements. No export demand for wheat, although Europe purchased heavy the early part of the week, advancing market 10c. Local mills report no demand for flour but have a heavy demand for bran and middlings at present prices. Exchange added six additional associations, totaling 32 Readditional associations, totaling 32. Reports disclose very little grain moving although grain marketed through exchange shows sales to exceed other bids to associations five to seven cents. Seed department has made extensive purchases of Grimm in west for mempurchases of Grimm in west for members of the farm bureau. Demand for Grimm increased materially throughout northern states. Supply available is not large, due to partial crop failure in Dakotas and Montana. All the seed markets are weaker but seed department able to make a number of sales outside of the state at price considerably above current market. Much imported and southern seed on reselvet ported and southern seed on market, but some sections willing to pay pre-mium for Michigan grown.

STATE HOLSTEIN SALE.

(Continued from page 649).

Consigned by R. Bruce McPherson, Howell, Mich.:

Burtondale Lady Pieterje 2nd, to E. G. Stevenson, Ontario, \$560.

Moonlight Colantha Genieve, to Edward Wagner, Wheeling, W. Va., \$400.

Cluny Maplecrest Pontiac Hartog, to Bazley Stock Farm, Ypsilanti, Mich., \$200

Consigned by Carl Hitchcock, Char-

Onsigned by Carl Hitencock, Charlotte, Mich.:
Traverse Colantha Minita, to E. G. Stevenson, Ontario, \$300.
Consigned by R. J. Bird, Ypsilanti,

Ypsiland Leona De Nijilander, to Edward Wagner, Wheeling, W. Va.,

Valley Jewel Banostine, to Bazley Stock Farm, Ypsilanti, Mich., \$380. Consigned by Russell H. Blake, Jack-

son, Mich.:

Belle Perfection De Vries, to Michigan School for Deaf, Flint, Mich., \$500.

Blackberry Belle Burton, to Colver Farms, Colver, Pa., \$250.

Blackberry Belle Pontiac, to E. K. Mason, Athens, Mich., \$215.

Broadmead Pontiac King Della, to B. W. Chiyars, Mich., \$200.

R. W. Chivers, Jackson, Mich., \$200.

Consigned by Boardman Farms
Jackson, Mich.:

Jackson, Mich.:
Oriskany Korndyke Bessie, to E. G.
Stevenson, Ontario, \$350.
Ithlea Retta Korndyke, to H. C.
Jones, Marion, Mich., \$220.
Consigned by N. S. Curtis & Son,
Adrian, Mich.:
Mary Elizabeth Colantha 2nd, to Colver Farms, Colver, Pa., \$310.

Notwithstanding the cheaper corn and roughage, the country-ward movement of cattle continues of only moderate volume. The October movement from Kansas City was only about two-thirds that of a year ago when, however, shipments to the country were practically at a record rate.





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SHEEP

FOR SALE 35 Registered Shropshire yearling rams and ram lambs.
Also some choice Duroc Jersey boars and gilts.
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SHROPSHIRES Yearling and sired by Imp. Berry No. 163 for sale. Also a few ewer ARTHUR DODDS, Lapeer, Michiga

Shropshires sire imported Minton Ram Lambs \$20, some ewes, 2 yearling rams.

DAN BOOHER, R. 4, Evart, Mich.

Shropshire Rams lambs, yearlings and one 2 yrs, old, priced right. CARL TOPLIFF, Eaton Rapids, Mich

Shropshires Yearling and rams, with quality, from imported stock.

W. B. McQUILLAN, R. 7, Howell, Mich

Shropshires yearling rams. Ewes of all ages. Priced right.
W. B. KELLY, Ypsilanti, Mich.

Shropshire Rams yearling or lambs for sale.

ARMSTRONG BROS, R. 3, Fowlerville, Mich.

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

Registered Shropshire Rams and ewes all ages for sale. Well-wooled with size and quality.

Priced to sell. H. F. Mouser, R. 6, Ithaca, Mich.

Maple Lawn Farm Shropshires, rams and ram lambs nose to toes.

A. E. Bacon & Son, Sheridan, Mich.

Registered Shropshire Ewes and rams. Jno. Grieve, R. 3, Fowlerville, Mich

SHROPSHIRE Yearing rams, right w. E. MORRISH, R. 5, Flint, Mich.

For Sale. Registered Hampshire yearling rams and ram lambs. Yearlings weigh 175 lbs. price \$40.00. Lambs weigh 129 price \$30.00. OTTO O. KNOB. R.R. 3. Monroe, Mich.

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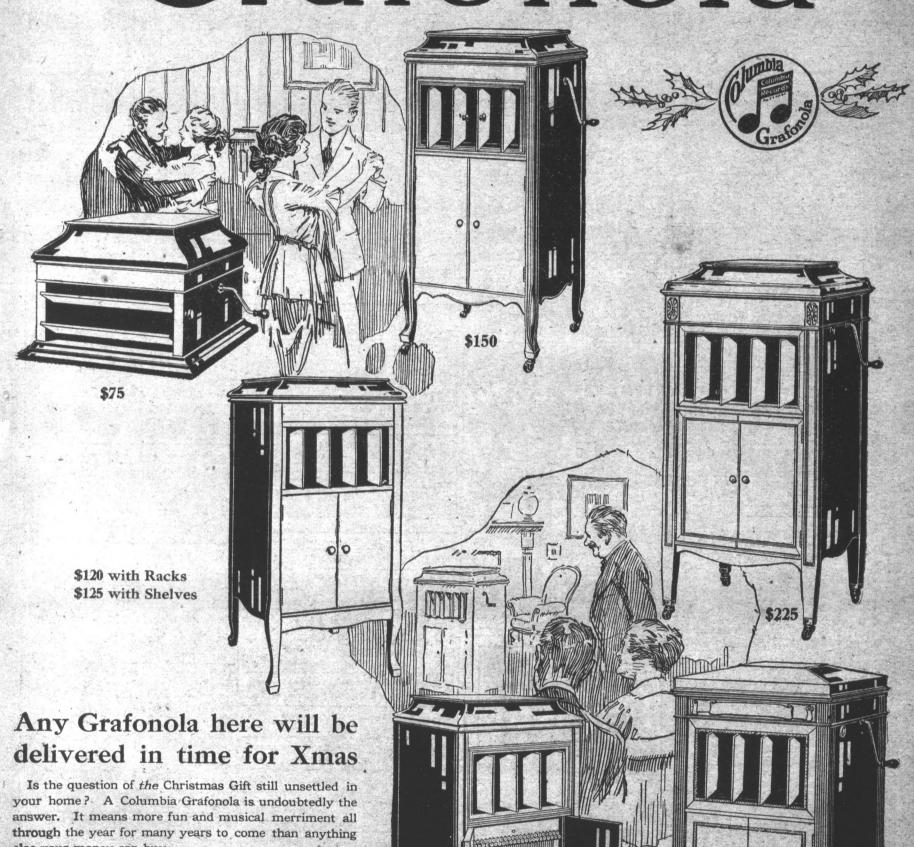
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