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DETROIT, OCTOBER 9, 1920

CURRENT COMMENT

The Grain Market Outlook

RAIN prices have declined to the lowest level since 1917, in sympathy with the general decline of commodity

prices during the past two weeks. Fine weather for the maturing of a good corn crop in all sections of the country has undoubtedly been an important factor in the downward trend of the market, but lack of confidence on the part of holders of grain and the strin gent financial situation have contributed to the general decline in no small degree and the future course of the grain market is certain to be greatly affected by the attitude of producers and by their need of ready money.

The statistical position of wheat remains good although not as strong as a month ago. Close students of the world situation are pretty well agreed that our surplus will be needed in Europe, and this view is borne out by liberal purchases for export prior to recent declines. There is also a general consensus of opinion that growers will not be inclined to market their crop, grown at greater cost than any which they have ever produced, at less than they received under the government guarantee during the war period, so long as they are able to hold. If this proves to be true and wheat growers are able to finance their operations without selling at a further sacrifice, there should be an early steadying of the market and a general stabilization of prices during the heavy marketing season. The gradual movement of the crop will be forced by transportation conditions, and its gradual sale from first hands will have a stabilizing effect on values, while general dumping by growers would undoubtedly force values still lower, due to the financial stringency and the difficulty of financing speculative or holding enterprises by grain dealers

In this connection a clear understanding of the money market on the financial interests for the purpose of purebred animals at private sale.

gan bank increased its loans and dis-roneous view. In a recent public ut- congratulated on the result of the ample, it is typical of a general condi-stock is to improve the common stock our continued business prosperity profitable from the feed lot standpoint. News of the Week resources made possible through the function, there are too few purebred federal reserve banking system.

of speculative operations is naturally an opportunity to purchase purebred cial institutions as the culmination of looked upon with disfavor by bankers, and the building up of a large visible take advantage of this, they are losing supply of grains will force prices down a great opportunity."

There is a fundamental truth in this are state banking department. The prospects for an armistice between Russia and Poland are greatly improved, according to reports from Riga.—Automobile sales increase from 100 to clining market.

crop if the statistical position of the ply it when you are ready. grain is borne out by future developtheir holdings freely at a loss, their ket flocks and herds. aggregate loss will be greatly increasconditions.

Michigan farms these grains are mar-sounder economic basis. keted indirectly or in the neighborhood, and their plentiful supply will largely compensate for their lower

Purebred Live Stock

N each issue our readers will find a list of dates claimed der a very serious labor handicap. Such

While this is perhaps an extreme ex-fundamental reason for purebred live their seasonal success. tion which would have been fatal to of the country, to make them more without the conservation of banking If purebred sires are fulfilling their sires being used. It has been several

below a compensatory price to produc-ers. Values which have prevailed durstatement which should appeal to eving the early marketing season have ery farmer. If he is also impressed for fuel on southwestern There is a fundamental truth in this undoubtedly been due in large meas- with the desirability of buying a few railways.—Polish troops are rapidly ure to the low visible supply. On ac- females as the foundation of better advancing toward Vilna.—Germany is count of the uncertainty of future con- live stock on his farm, all the better. of Nations. ditions and the tight money market, But no farmer should be satisfied to grain dealers have more generally have the young animals on his farm than ever before conducted their busi- sired by a scrub or grade sire which ness on a strictly merchandising basis, represents neither type nor quality ular republican organization candimoving their purchases marketward as and can transmit neither to his prorapidly as possible. For similar rea- geny. And if his need for the service sons millers have been buyers for cur- of a purebred sire is not sufficient to rent use only. This tendency seems warrant the purchase of such an anilikely to continue until there is a gen- mal, and none of satisfactory quality eral feeling that the bottom has been is available for service in his commureached in the matter of price, and nity, he should interest his neighbors such a feeling is not likely to become in the proposition and arrive at some practically doubled the past fiscal year general if there is a large increase in arrangement whereby a purchase can the visible supply on the present de- be made to supply this economic need. The many public sales to be held dur-It would thus appear that the future ing succeeding weeks should afford clining. of the wheat market is largely in the the best of opportunity for such purhands of growers. This is certainly chases. But failure to improve this true of the immediate future, and will opportunity need not bar the supplying prove true with regard to the entire of the need. A nearby breeder can sup-

And in this connection the breeder ments. If first holders of the crop con- has an opportunity well worth improvtinue to be reluctant to sell at prices ing, as well as a duty to perform. On below the former guarantee, the down- the same occasion when Professor ward trend will be quickly checked Mumford voiced the above quoted and values will be stabilized, at least views, he also said that there never Lida, until the size of the carry-over can be was a time when breeders should pay estimated with some degree of accu- so much attention to the local trade; racy, when the trend may be either that while breeders are finding diffiupward or downward, depending upon culty in marketing their surplus sires that factor and general industrial con- at a profit, the high price of registered ditions. On the other hand, if growers stock the past few years has discourlose confidence in the future and dump aged the use of purebred sires on mar-

It should be the aim of every breeded. The financial problem of the grad- er to accomplish the general improveual marketing of wheat by growers ment of the live stock in his own comwill undoubtedly be a difficult one, but munity and the sale of well-bred sires it is possible of accomplishment and is for use on the common stock of the essential to the maintenance of a com-community is the surest and quickest pensatory price to them under present way to accomplish this desirable result. It is our hope that farmers and men. The outlook for other grains is still breeders may quickly get together on more problematical, and their future such a program on a basis which will range of values will depend more gen- be just to both, to the end that the erally on their domestic use in the live stock of the state may be genererally on their domestic use in the live stock of the state may be gener-feeding of live stock as well as for ally improved and this department of parted, which indicates an increase in breadstuffs and manufactures. On most general farm production put on a the number of arrivars and a decrease breadstuffs and manufactures. On most general farm production put on a

Overcoming the Labor Handicap

HE farmers of the country in general, and of Michigan in particular, approach ed the season's pro-

for auction sales of help as they were able to secure was purebred live stock for the most part unsatisfactory as In our advertising col- well as costly. Much of it, was tranpart of producers is important. There umns they will find information resient and men hired for the season recent drive is given as 42,000. s a more or less general impression garding the character of the animals often passed on to other fields after first on the part of the public that the pres- which are being offered at these sales, a few days or weeks. In too many League of Nations issue at the coming ent financial stringency is an artificial as well as the advertisements of a cases the only way out was for the election.—The political situation beone, created by the big bankers and long list of breeders who are offering women and children of the family to tween the United States and Japan help in the seasonal work of planting brought on by proposed anti-Japanese measures by the state of California, hastening the process of deflation. A These announcements should be of or harvesting the crops. But with all careful investigation will disabuse the more than passing interest to the rank this handicap the season's production serious. public mind of this idea, and reveal and file of Michigan farmers. Too is greater than that of last year or the the fact that the stringency is due to many farmers look on purebred ani- war years that went before it. Thus the extraordinary demands which have mals as something apart from the prof- have the farmers of Michigan and the been made on the banks to finance an itable conduct of a farm, as an end to country, and a kind providence which soviet forces in the region of Novokexpansion of production and to carry be attained by the man who can afford has supplied more than ordinarily fav-

counts seventy-eight per cent in a pe- terance Prof. H. W. Mumford, of Illi- farmers' efforts, but should not make riod of fourteen months on increased nois, who needs no introduction in the error of believing that the food prodeposits of only thirteen per cent. Michigan live stock circles, said: "The duction problem has been solved by

Wednesday, September 29.

HE public is again regaining confidence in the banking situation in Under these conditions the financing years since farmers have had as good Boston, following a run on the finana lax state banking department.—The pressing for entrance to the League

Thursday, September 30.

ETURNS from the primary elecdates were successful throughout the state.—The Soviet government of Russia agrees to withdraw her troops from Lithunia, providing the withdrawal of Polish troops is affected.—F. W. Galbraith, of Ohio, is elected commander of the American Legion in convention at Cleveland.—Exports of railway mathe United States have from over the preceding year, and are about six times as great as the annual exports of railway material before the -Lumber prices are slowly de-

Friday, October 1.

HE interstate commerce commission reports that considerable progress is made in speeding up the movement of freight cars and increasing the load.—The federal reserve board the load.—The regeral reserve non-reports general business and financial conditions throughout the country as greatly improved.—It is rumored that the existing government in Mexico will be recognized by this country within a few days.—Poles capture 15,000 Russian soldiers and take the cities of Lida, Pinsk and Janew.—Large sums are being invested in Cuba to expand the sugar output of the Island.

Saturday, October 2.

T the international financial con-AT the international financial con-ference at Brussels it was agreed that Europe must settle down to work to re-establish her trade balance. The war department announces the sale of the entire surplus of harnesses and equipment to a West Virginia com-pany organized for the purpose of taking over these goods.—A new commercial travellers' treaty has been agreed upon by the United States and Argen-tine.—While transportation shows considerable improvement, the for cars still exceeds the supply.—The contains 150,000

Sunday, October 3.

FIGURES issued at Ellis Island show that during the month of September, 70,052 aliens arrived in this in the number of those leaving this country.—In four years of military oc-cupation the United States has placed the little republic of Santo Domingo on its feet.—The Italian socialist party on its feet. votes to adhere to the principles of the Third Internationale, which means in common parlance, joining the world reds.—A call is issued for all agriculed the season's pro-tural interests to meet in Washington duction problems un-October 12-13 to protest against govs labor handicap. Such ernment efforts to begin deflation in farm products.
Monday, October 4.

THE total number of Bolshevik prisoners taken by the Poles in the appears to be growing more and more

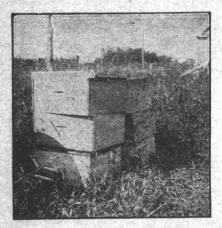
Tuesday, October 5.

ENERAL WRANGEL achieves fur-GENERAL WRANGED action of their successes against Russian novaska, taking five thousand prisonbusiness houses over a period in which it and has the inclination, rather than orable weather conditions in most sections.—Japanese troops and bandits greatly increased resources have been as a means to the end of increasing tions, met the season's labor handicap, clash at the Korea frontier.—The required to finance their normal operations. For example, inquiry has deportant department of production on within sight, and the season's crops dorsement of the suffrage amendment to the federal constitution.

Getting the Bees Ready for Winter

Our Beekeepers Who are Rapidly Increasing in Number Will Appreciate the Following Advice from an Experienced Apiarist-By Hy Sanders

while, of course, the further south are that they will give no trouble in winter quarters. they will need no further attention.



Honey Left in Old Supers Start Bees to Robbing.

the numbers on the wing, and after starves is a poor investment. Our prac- may perhaps kill the queen of the hive large an entrance. the bees had cleaned out the honey in tice is to take five well-filled combs to which they are being introduced. Proper temperatures and fresh air in

ty pounds of stores to carry a colony in a couple of days. pens to be very poor, and then it may ter. As the weather grows colder the the bees. Where the stores are very the bees that cover ten combs on a each entrance of the nearby hives tual brood-combs, there should then be thickness of newspaper between. By secrets of getting ready for winter.

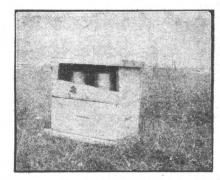
later than where frosts come early and the bees can get to it, for if they nev- an average man can comfortably lift one story. severe enough to cut off the flowers, er get started to robbing, the chances when the time comes to put it into

this last round is to avoid starting the bers and with enough stores to carry The bees get the feed through a num-very small, two inches by three-eighths them until the first flowers begin to ber of small holes that are punched in yield them a further supply. So we the lids of the cans with a nail, and must consider the population and the which cause the feed to leak out so food supply. To take the latter item slowly that the hive will often take first, we know that it needs about thir- down twenty pounds of syrup or honey

of bees till spring. This may consist After the question of food is settled, of honey, or of syrup made from two the next matter is to be sure that there parts of granulated sugar and one part are plenty of bees, and specially young of water. At the present price of sug- bees, in the colony. It is impossible to ar, and with the shortage that still give any hard and fast rule, but there prevails, it is not likely that there will ought to be at least enough bees to be much fed, but there are always cover seven or eight combs, and if some localities where the season hap they cover ten combs so much the betbe essential to buy sugar and to feed bees gradually draw together, so that A Simple Feeder Used by the Author. scarce in this way, it is well to join mild day in September cover only five of an inch being ample. The latter

HE time to prepare the bees for with grass and then wetted it with ample feed in the hive. Some bee- the time the bees have gnawed their winter varies with the season water. This so discomforts the pas- keepers go by weight, but this is unre- way through the paper they will unite and the latitude. Where the sea- sage of the bees that the robbing was liable for the weight of the combs var- without fighting, and on a later day son is prolonged into a mild and pleas- at an end, but the great idea is to ied to a great extent. In any case the the surplus combs can be taken out ant fall, it may be undertaken much avoid leaving the honey about where hive ought to weigh about as much as and all the combs placed together in

As the days get chilly, it is important to keep the bees as warm as posthe beekeeper is located, the later the this direction. When looking through If it is necessary to feed the bees, sible. The tops of the combs should winter comes, until we come to the the hives late in the fall, when the then the simple feeder that is shown be covered with a warm quilt, such as tropics where there is no winter and bees have not any natural sources of in the second cut can be utilized. This a piece of old carpet, or a piece of tathe problems of beekeeping occur in honey, be careful not to let them begin is fully as effective as any of the patother matters altogether. The time this plundering, and if a commotion is ented devices that are to be found in of any warm cloth. Then the cover when the last flowers of fall are in observed when a hive is opened let it the supply catalogs, and consists of a should be replaced and should not be bloom, whatever time that happens to be closed and an attempt made later, couple of ten-pound pails, filled with removed if possible. The bees will be, is the time when the bees should Given a warm day, however, and a syrup and turned upside down over then close every chink and crevice receive the last attention, except only little honey from the last flowers of the bees. The side of the super is with their glue and so conserve their that of carrying them into the cellar. the season, the bees may now be pre- broken away to show how the cans heat. The entrance should be closed Where they are wintered outdoors, pared for the long months of winter, are arranged, as, of course, in actual down to a small orifice. In the sum-To get a crop of honey next year the practice it is necessary to keep the mer a large and free entrance is good, The main thing to do at the time of bees must enter upon it strong in num- hive tightly closed from robber bees. but as winter draws near it should be



the colonies up till only very strong when freezing weather sets in, so the width is recommended to keep out the ones are left, for the stronger the col- test is not a very decisive one, but the mice, which will get into a hive with ony, generally speaking, the less food beekeeper soon gets to know when a large enough entrance and destroy bees to robbing one another. Nothing in proportion is required. Where there are enough, when in doubt he the combs, honey and bees. It is a will cause this more than leaving hon- has been a sufficient yield of honey, will err on the side of having strong curious thing that bees, although well ey where the bees can get access to it. the bees will not need feeding with colonies. The colonies that are extra able to defend themselves against The picture shows where two piles of any substitute, but care should be tak- strong, with perhaps two or three hive- most of their adversaries, seems to be supers were accidentally left about in en that enough honey is left. There is bodies full of brood and bees, will be powerless against mice. So a small one of our yards with some honey in always that temptation to "rob" the able to furnish assistance to the weak- flat entrance, too small for a mouse, is them. By the time that the bees found bees too far, a foolish process that re- er ones, and whenever a frame of the remedy. We have never had mice their way to it the thousands of bees sembles killing the goose that lays the brood and bees is given, it should be nibble their way into a hive, and when that came around resembled a swarm. golden eggs. A colony of bees that set at the extreme side of the hive and we have had losses from this cause it The picture gives only a faint idea of eats up the honey allowed and then not in the center, or the strange bees has always been on account of too

these supers they were so flushed with and to place them in the brood nest Where there are two weak colonies winter are important matters but they their ill-gotten gains that they started before we take any honey from the col- that are to be united, the best way is are of no use unless the bees are thorin and cleaned out every spot of honey ony to go to the extracting house, and to seek out and destroy the poorer of oughly fit to start the winter right. from several weak colonies near. We with the honey that will be stored at the two queens, and then to put the Good strong colonies, plenty of food, applied the usual remedies and heaped the last in the top corners of the ac- two hives together with only a single and tight warm hives are the three

Storing Michigan's 1920 Potato Crop

By G. H. Coons, Michigan Agricultural College

HE farmers of the United States Michigan has grown is to furnish the eastern counties, St. Clair, Macomb, in a cool, well-ventilated storage cellar. have one problem after another table stock for the United States. crop estimates now available.

tion and one would be rash, indeed, tition. as to market, year in and year out, for serving to keep fall prices low. the thirty-five million bushels which is present in some stock in the south- sult. Such potatoes should be stored

put up to them. In a year of At present price offerings it is likely wee. Presque Isle and probably Lake bers and is of the late blight typein recent years, if we can believe the in a way determined by the competi-severe as that of 1915. Instead of be-sold locally for quick consumption. It tion between the great potato produc- ing a general blight which shortened will not keep and if put in the cellar The situation is particularly press- ing centers. Last year late blight was the crop, the disease this year has ap- will be the source of future trouble. ing in Michigan with our crop of tu- fairly prevalent in New York and the peared late and will doubtless show up The great potato sections in northbers second in quantity only to New New York crop was moved early. The as a tuber rot, taking in some fields ern and western Michigan are, so far York, and second in quality to none. unprecedented spring prices reflected high toll and in others little or none. as reports tell us, free from the late Many factors enter into the situa- the absence of the New York compe-

stock may feel considerable assurance York crop will again be moved early, shaken from the leaves. Where this tacking the potato this year.

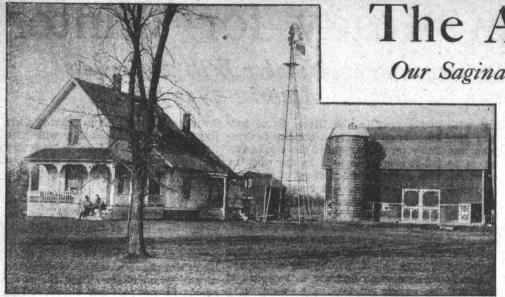
good seed is in demand locally as well In Michigan the potato situation picking-up process is adequate, a high-lock out for this year. These are trouas by other states. But, the bulk of falls into two conditions. Late blight grade, good-keeping product should re- bles which last year gave rise to enor-

Oakland, Wayne and parts of Lena- Where rotting is prevalent in the tugreat unrest and business uncertainty, that much of the crop will be held for county will also show considerable that is a brown discoloration is evithey are called upon to handle one of later delivery. Many conditions must loss. The extent of this outbreak is dent just beneath the skin—then the largest crops of potatoes produced be considered. The market price is problematical and certainly is not so crop should be sorted carefully and

Timely warning has already been is- blight. It is this area that will natursued through the county agents and ally furnish the safest tubers for long who attempted to advise farmers During the present year, late blight the Michigan Farmer, urging farmers distance marketing. The weather, alwhether to hold or to sell. It may be is reported general in Maine and ex- with blighted fields to withhold dig- though pinching the crop a little by pointed out that up to certain limits ceedingly common in the entire east- ging until the tops were dead and dry withholding rain, has at least eliminatthe grower of high-grade certified seed ern area. It may be that the New to avoid infecting the tubers by spores ed blight and rot from the enemies at-

is practiced and sorting during the This section has only two things to

(Continued on page 438).



The Activities of Our

Our Saginaw Valley Field Man Finds the Farm Dennison, are Putting Shiawassee's

> Home and farm buildings of Archie Sherrard, four miles north of Corunna, Michigan.

N Central Michigan, that beautiful counties in Michigan, but they certain- energy and persistence and you have there well spent.

raphy has become a little hazy, it may almost every other county in the state. town after nightfall. be well to state that Shiawassee county lies directly south of Saginaw county, with Genesee on the east, Clinton on the west, and Ingham and Livingstone counties on the south. It comprises sixteen townships, and the first principal meridian bounds it on the west. With a width of about twentythree miles and a length of twentyfour miles north and south, it has an area of approximately five hundred and fifty square miles. The Shiawassee river courses through it from southeast to north, draining a considerable territory, while the Looking Glass river flows through the southern townships from south to west. The principal railroad center and trading point is Owosso, a thriving little city of more than twelve thousand people, lying near the geographical center of the county and affording good shipping facilities not only by railroad but by electric traction. Other towns are Corunna, Durand, Byron, Bancroft, Morrice, Perry, Laingsburg and Ovid, all situated on railroads, and as shipping and distributing points display ample evidence of prosperity.

H. E. Dennison is County Agent.

cient county agent, H. E. Dennison, a that wonders have been accomplished. thoroughly experienced official in the A Soft Pedal on the County Agent. work of the farm bureau. Going about and political prospects.

The Farm Bureau Organization.

land of plenty, flowing with milk ly are enthusiastic and consistent the ideal county agent.



County Agent Dennison.

made in a hitherto indifferent field, and when we consider that in Shiawassee county a systematic and cooperative movement is only one and a half years old, since Mr. Dennison took In quest of information about Shia- charge of it, we must acknowledge, af- entailing motor travel of more than wassee it was my good fortune to have ter a full understanding of the diffithe help and cooperation of the effi-culties encountered and the progress

To speak very modestly of him, as with him in certain parts of the coun- he would like me to speak, I will say ty, meeting the leading progressive that Mr. Dennison is the right man in farmers and hearing their glowing ac- the right place. He is one of those counts of progress and prosperity, I rare individuals in executive positions was deeply impressed with the fact who work along well conceived and that Brains and Energy spell Success logical plans for steady advancement no less in farming than in any indus- and improvement, shunning the spottry. Everywhere, I found farmers and light of personal achievement and all farmers' wives of high intelligence, spectacular and popular action. He with thorough understanding of soil is one of the blessed few in really imconditions, displaying an intense ener- portant work, who the more you see gy in the effort to get the most out of them in action the better you like the land. They seemed well posted on them. Of pleasing personality, a kindthe markets, the men on grains, beans, ly smile and an earnest desire to aid hay and stock, and the women on but- and benefit the farmers, he is a leader ter, eggs and poultry as well as on the and friend of all of them, and they so prices of new fall toggery; and they regard him. A practical farmer himwere well informed on current events self, or, as I should say, a practical dairyman, he knows the needs of farmers and is so well versed in the science The number of boosters for the farm of farming as to constitute in himself bureau in Shiawassee may not be a complete bureau of information. above the average for many other Coupling up these traits with untiring

farming he little looked for, and in the be, and sometime in all probability close to nature, whose beauties she generally were above the average, gain of experience will deem his time will be. This condition—one merely thoroughly appreciates, she finds no showing large growth. In one field

> of the Shiawassee County Farm Bureau.

reau was started and carried to a suc- longer dependent upon this element. cessful conclusion. At a regular meeting of members the following farmers being harvested by corn binders, and were elected to fill the various offices I was told the yield was from seventyin the bureau, C. M. Urch, Durand, five to ninety bushels per acre. On president; P. P. Bishop, Henderson, one farm near Owosso, a year or two secretary-treasurer. These officers and reported that a tenant had twenty the following men constitute the exec. acres of corn of even growth stalks utive committee: Leslie Clark, Perry; about eleven feet high, and each one. W. L. Scribner, Morrice; J. W. Ship. though drilled in, had at least one pee, Owosso; A. W. Augsbury, Len- large ear. The variety was Yellow non, and A. J. Hanchett, Corunna. Dent, and the field had no special fer-Without a single exception these rep. tilizing. One acre, husked by hand, resentative farmers are leaders and gave one hundred and ninety bushel the big boosters for the extension of crates, which made more than one the farm bureau work. They are the hundred bushels of shelled corn. The sort of men in whom any county might same farm had a field of oats the same well be proud and feel perfect assur- year that gave seventy bushels to the ance in entrusting the destinies of acre. Threshing was still another farm organizations.

Crop Production.

In my circuit of Shiawassee county, one hundred and twenty miles. I disinois; they are growing better and southern townships you will find some

more oats per acre than in any state south of us, and are making records in the production of sugar beets and hay. The soil is well adapted to growing all the clovers of various kinds, and in growing alfalfa the farmers are very successful. No county has better grass and pasturage, and few can show better herds of blooded stock. Shiawassee is one of the twenty counties ia Michigan which collectively could control the bean markets of the country.

On each side of the fine gravel roads upon which I motored in the middle of September, was some practical evidence of a farmer's industry. In many and honey, and blessed with an boosters, and are not only deriving As his assistant in this important farmers were sowing winter wheat, fields freshly plowed and harrowed, equable climate, is Shiawassee county great benefit themselves from the office, with the title of Home Demon- while in others they were making a gem in the crown of our common- workings of the bureau, but are inter- stration Agent, is Miss Louise D. Land- ready for this operation. In some placwealth. Possessing more than ordinary esting their neighbors in it. There are strom who also has charge of the club es wonderful crops of beans had been attractions to the visitor or home-seek- somewhat more than sixteen hundred work. A graduate of the Michigan pulled, piled in small heaps on the er, it affords an almost unlimited field and fifty members of the County Farm Agricultural College, Miss Landstrom ground in readiness for hauling in, and for investigation, and surprises await Bureau, who are fairly representative taught domestic science in the public in others farmers were in the act of him who goes about expecting to meet of the rural population; still there are schools at Crystal Falls, in this state, pulling them. About the only green in only the commonplace. He will find a goodly number of successful farmers and for five years was connected with the ground landscape was sugar beets many things and many conditions in who are not members, but who should the dairy work at M. A. C. To get and corn; and in the former the fields of mental attitude—is, I believe, not greater delight than in long hikes out three beets pulled at random weighed For the benefit of those whose geog- different from a condition existing in into the country, ofter returning to more than six pounds each, and with three weeks to grow before pulling, Men who Direct the Policy and Work three weeks of possible warm days and nights, considerably more weight should be added. The sugar content Along toward the middle of April of should also be higher with the warm the present year, the campaign for September weather this year, but in members to complete the organization this factor the farmer is not interested of the Shiawassee County Farm Bu. as the price paid for his beets is no

> In many corn fields the crop was vice-president; F. M. Crowe, Owosso, ago, Albert L. Chandler, the owner. farm activity observed in numerous places, and added a novelty and charm to rural scenes.

> > Stock Raising on Extensive Scale.

Although the eastern half of Shiacovered that practically everything wassee is the best farming section, grown in paying quantities in our state the raising of dairy herds and sheep is is successfully grown in this county. not confined to that part of the county. The farmers are growing just as many The dairy business is very profitable bushels of corn per acre here as in Ill- throughout, and in the western and



One of Shiawassee's Successful Peach Orchards.

County Farm Bureaus

Bureau Leaders Headed by County Agent H. E. Agriculture on a Business Basis

splendid blooded stock. Large quantities of milk and milk products find a ready and convenient market in Detroit, the present price for milk being \$3.00 per hundred pounds. The Live Stock Association is a well managed business organization, and maintains shipping stations, each managed by a local agent, at ten convenient railroad points. These are: Owosso, Corunna, Henderson, Lennon, Bancroft, Vernon, Morrice, Perry, Bennington and Laingsburg. Stock shipments generally go to Chicago, Detroit, Toledo, and an occasional one to Buffalo.

In the western part of the county farm is in Hazelton township, is al- in Shiawassee county was divided into the farm bureau is gradually getting of Holsteins and thirty-five breeders of Jerseys, the average herds running tilated sty well fenced. from twelve to thirty head. This is a part, as many of our readers know, of and a branch at Ovid.

In the eastern townships, especially Venice and Vernon, sheep feeding is carried on as a distinct and profitable business. Many farmers make a specialty of this and have equipped their farms to conduct the business on a large scale. In a number of places I found big double-decked feeding barns, notable among them being the modern barn of Frank Mikan, situated one and a half miles east of Durand. In this and other barns there is a complete elevator system with all other devices for easy and convenient care of many sheep. The average flock numbers about three thousand sheep down to two thousand. B. W. Calkins, whose farm is northwest of Vernon, and Mr. Bingham, whose place is not far distant, also are extensive sheep feeders, and, with Mr. Mikan, are probably the largest dealers of western lambs in this part of the state.

Hog Raising Not Popular.

In the raising of hogs the farmers don't seem to take to it, and in only business some attention. Mr. A. J. Hanchett, a member of the farm bu-

Farm of Frank Mikan. Double-decked barns with elevator for feeding and care of 3,000 sheep.

Poultry is Coming Fast.

there are about one hundred breeders ready equipped for this business, hav- fifteen locals, the boundaries of which its business, and incidentally the farming a new concrete floor and high ven- were determined by the farmers with ers' business, on a firm substantial reference to convenience in haulage basis. Already the farmers are realizto railroad points as marketing cent- ing considerable saving in collective

While poultry always has been a ers. The railroads of Shiawassee bi- buying and in selling through their the great central district of Michigan, favorite side line for the farmer's wife sect the county in every direction, af cooperative associations. This is done and children, in Shiawassee they have fording splendid facilities for reaching by the various local or community Holstein district in the United States. not until recently gone in for it on a the city markets. Crossing the county units bunching individual orders for business scale. But almost everywhere from southwest to middle east, the coal, fertilizer, feed and other comlarge milk supplies here produced, the the people are awakening to the pos- Grand Trunk Railway touches Shafts- modities required in quantities, and Waterloo Dairies Company operates a sibilities of profit in hens, and in a burg, Perry, Morrice, Bancroft and sending in to the farm bureau office condensary of large capacity at Elsie, number of places I noticed new chick- Durand, while the old Detroit & Mil- orders for the aggregate quantity of just across the line in Clinton county, en houses and broods giving promise waukee, operated by the same system, each. of good things to come. On the county crosses from west to east, touching Sheep Feeding a Profitable Business. agent's place, six miles south of Owos- Ovid, Owosso, Corunna, Vernon and

Field of Forty-bushel Wheat on Farm of George Myers.

so, where I was very pleasantly enter- Durand. The Michigan Central enters

The Farm Bureau Locals.

reau executive committee, whose fine State Farm Bureau, the organization

tained of an afternoon, Mrs. Dennison the county at Laingsburg, runs northof Shiawassee are not strong. They has from four to five hundred White easterly through Bennington to Owos-Wyandottes, with a number of big pro- so, and northerly through Henderson one place did I see an attempt made ducers. Well versed in poultry raising into Saginaw county. The Ann Arbor to raise hogs above the farmyard av. Mrs. Dennison keeps a careful record Railroad comes up from the south at erage. There are a few Durocs, with of each hen, and follows a practice of the eastern corner, passes through By-Poland Chinas leading, while Hamp- culling out non-producing ones. Only ron to Durand, and northwesterly shires seem to please the boys. Sev- the day before she had sold in town through Vernon, Corunna, Owosso, and eral farmers told me they intended go- fifteen fat roosters, which brought leaves the county near its northwest Three other cooperative elevators are corner. The Saginaw division of the Grand Trunk extends from Durand Following the plan outlined by the through a corner of Venice township into Genesee county.

The fifteen local units of the farm course.

Activities of the Farm Bureau.

mean dimensions. A scattered populaed with widely different problems is not easy to unite upon all questions, and it is only in unity and concerted action by the great majority that real-

This year the fifteen locals sent orders aggregating fifty-four cars of coal, nine of fertilizer, and three cars of feed, the latter order being one car each of cottonseed meal, gluten feed and oil meal. To the middle of September about half of the coal had been delivered to farmers at an average saving of about two dollars a ton, and practically all the fertilizer and feed was either on cars at receiving stations or on the way. The total saving to farmers through collective purchasing, besides insuring delivery of commodities when needed, will reach a considerable sum. In this helpful cooperative work the county banks lend every encouragement, chiefly by loaning money to finance the purchase of community supplies through the farm bureau, the farmers' guarantee notes given the bureau forming the collateral security for the loans. As soon as the supplies are delivered and paid for by the farmers, the accommodation notes are paid and the farmers' notes delivered back to the farm bureau treasury.

Another feature of interest is the extension of farmers' cooperative elevators in Shiawassee. At present there are four such elevators in operation, at Laingsburg, with a branch at Benproposed and will probably be established this fall.

County Club Work.

As yet Shiawassee has not organizbureau are located at the principal ed its club work on a comprehensive towns mentioned, each under the di- plan. This was owing to the want of rection of a capable farmer and boost- competent assistance in the work of er for the bureau and its work. These the farm bureau, and the stress of local managers have in most places more important duties. But with the accomplished wonders in binding the efficient aid of Miss Landstrom, an exfarmers together in a close union for perienced leader in this work, thortheir mutual benefit and gain, and ough organization will be undertaken great results are sure to follow in due this winter. At present there is a pig club at Lennon, the boys choosing Hampshires for breeding; and they The placing of the farmers' business made an exhibit at the county fair this on a business basis is a task of no year. A hot lunch club for students was also in operation last winter. At tion in which individuals are confront. Laingsburg there is a poultry club in which the members run to White Rocks entirely.

A Record Crop of Sugar Beets.

The harvesting of an unusually large ly beneficial results are obtained. In sugar beet crop will be in full swing Shiawassee, where no united action when this story about Shiawassee was had until a year and a half ago, county is in the hands of our readers.



Poultry House of L. M. Woodin is Supplied with Every Convenience.

In all there are eighteen thousand and operates a farm of one hundred public drains and tile drainage is one very energetic, ambitious and has the higher price for next season's beets did not interest Mr. Bishop this year, er of those broad, level-headed farmers iness agent for our membership, with signed contracts.

Farm Leaders of Shiawassee.

C. M. Urch, president of the Shiwasshows the owner to be a practical farmers cling more closely to the false any one crop. farmer with progressive ideas. In a notion that every farmer should work thirty-five head of full-blood and grade low look out for himself. Holsteins, twenty of which are milkers; and in the pigsty somewhere near one hundred and fifty hogs and pigs. Mr. Urch has been feeding hogs as a business for the last eight years, and in the long run it has proven quite profitable.

When asked what he considered the most important work of the farm bureau, he said: "I am a strong believer in farmers' cooperation in everything pertaining to farming, and, while I am a member of nearly all farm organizaitons, I am satisfied that the farm bureaus have developed more substantial helps than any other farm organization yet started. The possibilities of this farm bureau can scarcely be imagined. Its most important work in my judgment, is the legislative work; but we want and must have strong and earnest cooperation from the local community units."

P. P. Bishop, Henderson, vice-president of the County Farm Bureau, owns

Slicing of beets will probably begin in woodlot. General farm crops are generation will derive great benefits surely paving a way for the rural popabout the middle of October, but this grown, this year twenty-two acres be- from increased production. A number ulation to help itself to better things. will depend upon how rapidly the ing in wheat, twenty-eight acres in of farmers are becoming interested in He aims to promote the general good farmers deliver the beets. The sugar- oats, and twenty-six in beans. The lat- this movement, one having put in three of all farmers, and plays no favorites. making campaign is sure to last more ter crop is far above the average, and thousand feet of tile in his land which Our County Farm Bureau is organized than one hundred days. Whether there a part was being pulled the day I vis- runs to a fine clay loam. will be efforts this year to secure a ited his farm. The growing of beets J. W. Shippee, Bennington, is anothexpect to develop it into a perfect bushas not been decided by the farm but though he has done very well with who are doing big things for the ad-good service and their interests ever reaus. If such an effort is made, it them in former years. In poultry the vancement of farming in Shiawassee. in mind." will be before any of the farmers have family is interested, and their coops He is an active member of the execu- A. W. Augsbury, Lennon, a member Rocks.

acres of beets in and around Shiawas- and ninety acres in Rush township, of the most important problems con- interests of the bureau at heart. He see county, and the crop is unusually and eight miles north of Owosso. He fronting Shiawassee farmers, is the be- is certainly building up the organizagood, the effects of early drouth being has been farming here for eight years lief of Mr. Bishop. A start should be tion to be a real big factor in farming offset by the heavy and frequent rains and has the land in a high productive made at once to map out a logical in this county, and while there is nothduring the latter part of the summer. state, only five acres of the farm being course to pursue, for then the next ing spectacular about his work he is for business, pure and simple, and we

have above three hundred Barred tive committee of the farm bureau, and of the executive committee of the farm is ever ready to give his time and ef- bureau, and leader of his community Mr. Bishop believes that the commu- fort to the promotion of its interests. local, has a fine farm of one hundred see County Farm Bureau, is one of the nity units should arouse a greater in- His farm is in Bennington township and twenty acres in Venice township. really big men of the county. His fine terest among their members to work about seven miles southwest of Owos- He is a general crop farmer, this year farm of one hundred and sixty acres is together with a strong cooperative so, and comprises two eighty-acre lots having eleven acres in wheat, eleven situated in section thirty-four, Vernon spirit. The older members as a rule, about half a mile apart. The soil of in oats, seven in barley and five and a township, two miles south of Durand. realize the benefits to be obtained by both lots is well adapted to general half in oats and barley. In speaking A casual inspection of this property coordination of effort, but the young farming, and he does not specialize on of the difficulties of organizing the farmers in the outlying townships, Mr. In regard to the farm bureau work, Augsbury said: "I find most farmers wide pasturage you would find about only for himself, and let the other fel- Mr. Shippee said: "I think we have a are so engrossed with their own afgood and efficient county agent in Mr. fairs, or have so narrow a view, that A broad and comprehensive plan of H. E. Dennison, who is a fine fellow, it is impossible to get a handful of men together to discuss the pressing problems of the day. What can be done when so few farmers take any real live interest in community affairs?"

A. J. Hanchett, Corunna, whom the farmers of Hazelton township have repeatedly honored by election to public office, is a farmer whom once having met and conversed with, you really want to meet again. His farm is situated nine miles northeast of Corunna, in what is probably the richest part of the county. The land is flat and still quite heavily wooded, the soil being perfectly adapted to the growing of general farm crops. Mr. Hanchett has one hundred and sixty acres of this rich land, twenty acres of which was this year in wheat, thirty-six in oats, . ten in beans, and the remainder in pasture and wood. He has given some attention to poultry, and intends taking up hog raising as a business. His (Continued on page 442).



Sheep-Feeding Barns of Robert Goodall.

OUR SERVICE DEPARTMENT

POULTRY RAISING SCHEME.

want to get a breed of chickens which make good mothers good for meat. I intend to little time. But can it be done at a profit?

C. V.

Any of the American breeds of poultry, such as the Plymouth Rocks, Wyandottes or Rhode Island Reds, make good mothers and are fine for meat. The plan of raising the young poultry line run through and wants to fence it on the same range as the old birds is in order to keep boats from landing, hardly practical as the old birds would as it interferes with his business of running a boat livery. This strip is hardly practical as the old birds would running a boat livery. This strip is good for nothing but as a boat landing

and note the manner of conducting the gross is one belonging to a person and business. By reading and observation not for the benefit of any other partic-you can pick up a great deal about the ular land, such as the right to dig and management of poultry under free sell sand from the land of another. A heavest and have the third of the grain have the third of the

try that takes little time and effort, the benefit of the house on B's land, a reasonable time to discover violation

was organized. turbed possession for that length of time and wants it to remain in that condition. B, a newcomer, has had a B, a newcomer, has had a would be stunted and unthrifty. The rations given the old stock might not be suitable for the growing chicks. All breeds of chicks need special care at different periods in their growth.

Your card indicates that you have a liking for poultry but have not had much experience with it, and we would advise you to visit a poultry farm where modern methods are employed and note the manner of conducting the good for nothing but as a boat landing and bathing beach. Threshers have used it for years to get their waters to get their waters to see this spring. Nothing it on the place this spring. Nothing was said about his putting in fall crops. He has been very unpleasant and I don't want him to work it any longer than his contract calls for. Can he prevent me from renting any fields (from which he has removed his crops) to another man for fall crops?

Easements, such as rights of way, are of two sorts, public and private; and private easement in and note the manner of conducting the good for nothing but as a boat landing and bathing beach. Threshers have used it for years to get their waters that public is not needed at this late date. Is there any method of procedure to keep this open to the public as before?—R. W. W.

Easements, such as rights of way, are of two sorts, public and private; and private easement in gross. A private easement in specific procedure to the public as before?—R. W. W.

Easements, such as rights of way, are of two sorts, public and private; and private; and private easement in gross is one belonging to a person and have one-third of everything. Nothing it on the place this spring. It is not needed at this late date. Is there any method of procedure to keep this open t

you can start out on a small scale and den on one piece of land for the bene- tenant to exclusive possession for that it would be the plain stalk, which I

J. R. R.

I own a farm and live on it. Last spring I rented it to a man for one year (written contract dated from Apr.

gradually develop the proposition as it fit of another piece belonging to anoth- term, and the lessor has no right to imagine would not be very nutritious. proves profitable. There is really no er person, such as the right to take enter for any purpose other than to de- However, I can find no food analysis way of making much money with poul- water from a stream on A's land for mand rent or inspect the premises at of artichoke stalks.

There is no easy money in the business or the right to cross A's land to get to of covenants, till the lease is ended; under the best of conditions, as the B's land. From the question it is man- and in the absence of breach of its od mothers and are under the best of conditions, as the B's land. From the question it is man- and in the absence of breach of its I intend to put them large number of details take more ifest that there is no private easement terms by the tenant, and it matters not good for meat. I intend to put them in a ten-acre field, fenced off, and let every hen that wants to set raise chickens, give young and old the same food and drink, gather eggs not used for setting, and sell off the whole amount in the fall except some of the best birds. In this way it would take little time. But can it he days are little time. But can it he days are little time. There is a small strip of land border.

Intend to put them large number of details take more ifest that there is no private easement terms by the tenant, and it matters not either appendant or in gross. A pubthat he is a disagreeable neighbor. Lic easement is a right in the general But, on the other hand, the tenant has public to make use of the land of an no rights after the end of his definite other for a special public purpose, term; and any crops he does not harbert this may arise by dedication or public the lesson. It is different at the control of the same and it matters not either appendant or in gross. A pubthat he is a disagreeable neighbor. Short the first that there is no private easement terms by the tenant, and it matters not either appendant or in gross. A pubthat he is a disagreeable neighbor. Short the first that there is no private easement terms by the tenant, and it matters not either appendant or in gross. A pubthat he is a disagreeable neighbor. Short the first proposed in the first that there is no private easement terms by the tenant, and it matters not either appendant or in gross. A pubthat he is a disagreeable neighbor. Short the first proposed in the first proposed in the same and in the first proposed in the same and in the first proposed in There is a small strip of land bordering a lake. It has never been fenced, being used as pasture, boat landing and bathing beach ever since the country period, this right exists in ant for life; crops planted by him between a compared to hear had under this case.

J. R. R. fore the end of the term do not belong fore the end of the term do not belong to the reversioner, but the tenant or TENANT'S RIGHTS UNDER LEASE. his representative may harvest them. J. R. R.

ARTICHOKE FOR SILAGE.

Will you please advise me on the value of artichoke stalks for silage? I have never heard of them being used but cannot see why they would not be

as good as sunflower stalks.
Osceola Co. C. H. F.
I never knew of the stalks of artichokes being used for silage. I am of the opinion that the stalks of artichokes would be just as valuable as the stalks of sunflowers, but of course, with sunflowers you mix the seeds in

The Story of a Farmers' "Trust"

These Farmers Have Absolute Control of the Crop—Cooperation Rescued a Declining Industry—By Herman Steen (Copyright 1920, Standard Farm Papers, Inc.)

the raisin growers' company fulfills isfactorily. the requirements of a trust and is the only farm-raised and farm-managed trust in existence.

Different Kinds of Trusts.

raisins in California has increased 500 per cent. This increased production can justly be credited to our organization, because the fair prices secured for raisins have resulted in a tremendously increased acreage devoted to raisins.

"We have not attempted to stifle competition; we pay no attention to growers outside our organization, except as we occasionally ask them to join. We market our own raisins and nobody else's and let the independent growers handle theirs as they see fit. If they want to join, they are welcome on the same terms as all the rest of us; if not, we are

sorry they cannot see things the way ton crop was cleaned at five and a half in California that right there the rais- water. The price of three and onewe do.

A Benevolent Trust.

and speculators have more than the association price, and started even. our members have accused us of laying down on the job.

treating the consumer square."

History of Raisin Industry.

eighty per cent of them from a dis- to pay every grower the same price to buy more than they could handle eration in California. trict in the San Joaquin Valley within for the same quality of raisins, no mateasily. The rest was allowed to spoil. thirty-five miles of Fresno. Nearly ter when they were sold. It was pro- There were ten principal raisin pack-

HIS is the story of the only farm- ninety per cent of the California rais- posed to fix the price of raisins at the ers previous to 1912, in addition to a

pany—an organization of ten thousand The history of raisin-growing in the that the organization should not turn High Five and the Low Five. farmers—ninety per cent of all the San Joaquin Valley is a sorry tale. It a wheel until at least seventy-five per The High Five and the Low raisins produced, thus having a virtual dates back to 1884, when the first vine- cent of the raisin growers had signed absolute control over their crops, and in raisins, and equally wild boom in sociation. it fixes prices. The affairs of the com- land, and a smash up. In 1891 raisins agreement. Finally, it has been inves- were formed, and followed one anothcompany can claim so many distinc- each grower pulling up a certain pertions along this line. All of which is centage of his holdings. Even then the tion failed there would be more forecited as proof of the statement that packers could not market the crop sat- closures than ever in the San Joaquin fin. "It was fortunate that our dreams

Under-Consumption.

"It was not over-production and never was," declares Giffin. "It was under-consumption caused by a vicious, But Wylie M. Giffin, president of the inefficient and out-of-date distributive raisin growers, objects vigorously to system. They used to tax over-produchis organization being classed with tion when twenty-five thousand tons finance the new company. It had one tion would not today be in existence. other trusts. "We've never pulled the was the size of the crop, and a cent million dollars of capital stock author- The High Five and Low Five would rough stuff with which the lumber and a half per pound was the price. ized, the plan being for every grower still be dominating the raisin industry." trust, the steel trust and others are Now we sell two hundred thousand to subscribe ten dollars per acre of commonly credited," he said. "For in- tons above ten cents and the supply is vineyard. Some growers subscribed that fall as it was harvested, and sold stance, we have never done anything licked up clean before the season is more, some less, others nothing at all. it direct to wholesale grocers or to to restrict production. Since the Cali- over. In 1907, when one of our defunct Finally bankers and business men had brokers who supplied the wholesale fornia Associated Raisin Company was associations was functioning fairly to take a good-sized slice of the stock. trade. When the growers delivered

wisest growers knew if this organiza- refused. per cent of the raisins were pledged to the association for five years.

Financing the Company.

organized in 1912, the production of well, a one hundred and ten thousand It has since been generally recognized raisins they were given a first pay-

ers' trust in the world, the Cal- ins are marketed under contract cost of production plus a fair profit— number of smaller speculators. The ifornia Associated Raisin Com- through the growers' own company. more to be sold for less. It was agreed ten were known to the growers as the

The High Five and the Low Five.

It was to the High Five and the Low monopoly over the industry. Through yards were set. The first crops brought contracts binding them to deliver all Five that Wylie Giffin, president of the agreements with its members, it has large returns, followed by a wild boom of their raisins for five years to the as- California Associated Raisin Company, went to in 1912 to sell the seventy-A good story might be written about seven per cent of the raisin crop conpany are directed by twenty-five men, sold for one cent a pound. Growers' the campaign to secure growers' sigwho operate under a voting trust organizations of one sort or another natures to contracts. There was little He offered to sell the seventy-seven enthusiasm, because every grower in per cent for a period of five years for tigated by the federal trade commis- er into the graveyard. By 1905, condities the district had seen previous organithree and one-fourth cents per pound, sion and hauled into court by the de- tions became so bad that twenty thou zations rise and fall. If enthusiasm this figure being based on the cost of partment of justice. No other farmers' sand acres of vines were uprooted, was lacking, courage was not. The production. The offer was scornfully

"That was most fortunate," says Gif-Valley. By the time the raisin crop of somebody else doing our job did not was ready to be moved, seventy-seven come true. It was most fortunate that we were compelled to do the job ourselves. Had we not been compelled to do the job ourselves, had the packers accepted our offer and taken our The biggest part of the job was to initiative away from us, our associa-

The association took the raisin crop

ment. As it takes some time to get the money from shipments, the scanty supply of cash in the raisin association till was soon licked up. Growers were induced to take notes -even one-day notes. A few with more courage took seven-day notes and a few hardy souls accepted ninetyday notes. "The banks believed in us and encouraged us until we wanted to borrow money," Giffin said.

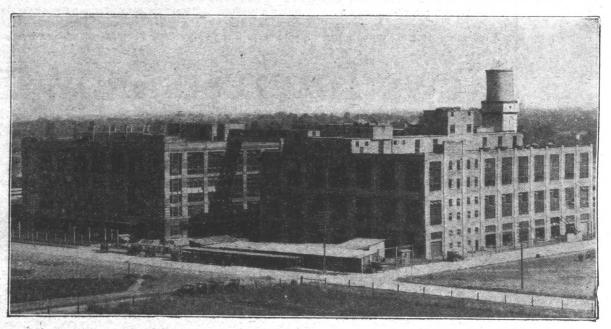
Over the Hilltop.

Before that first season was over, raisin growers held over one million dollars of association notes. These notes were all paid when due, and the association managed to keep its head above

ganization; (2) they formed a capital uncertainty and mounting the hilltop

The next year a few more growers move the crop. Raisins are not a nec- of the industry. The growers were too capital stock. The reason why the first had courage, and some had a little essity, you know, and people would re- discouraged to even think of organiz- was a blunder is quite obvious; the faith. But no matter how they felt tofuse to buy if we charged too much, ing. Another organization was launch- second question is one of the funda- ward the association they were com-In fact, during the past two years, in- ed, but had the bankers and business mental features of California coopera- pelled to market their raisins through men of Fresno not backed the proposition and will be discussed in a separtit because of the iron-clad five-year contract they signed. The packers and The raisin crop, previous to 1912, speculators, alarmed at the strength had always been handled by the pack- of the organization that snatched sev-The resulting product was the Cali- ers, who processed and packed the enty-seven per cent of the raisin crop "Call us a trust if you want to, but fornia Associated Raisin Company. It crop, later selling it to the wholesale away from their grasp by one stroke, we're a benevolent one. Give us credit was the most ambitious plan ever tried distributors. These packers were not stirred up all kinds of dissension. for stimulating production, providing by any of the numerous raisin organ- only packers, but speculators also. In Members of the association were inefficient distribution and eliminating izations. It was proposed to require fact, the words packer and speculator duced to sell their raisins to speculatspeculation, and at the same time the members to turn all their raisins can be used interchangeably, so far as ors, in spite of their contracts. The over to the company, which would sell the California fruit business is con-contracts were then taken to court them; in other words, the growers cerned. Their practice was to buy the and sustained in every case—the most All the raisins produced in the Unit- would produce the raisins and the com- crops at the lowest possible prices, and sweeping legal victory ever obtained ed States come from California, and pany would sell them. It was proposed if the crop looked too large, to refuse up to that time for the cause of coop-

The raisin growers' organization



New Million-and-a-Half-Dollar Raisin Processing Plant. Owned and Operated by Raisin Growers.

cents per pound; previously a consider- in growers committed their only ser- fourth cents was obtained for every ably smaller crop could not be moved ious blunders: (1) they allowed out-pound of raisins produced. The raisin

reasonable profit, and low enough to growers was the lowest in the history profit cooperative association without paid from two to seven cents a pound tion vigorously, it would not have been ate article.

An Ambitious Program.

"We have not charged exorbitant for two and a half cents. It was a siders to join with growers in their orgrowers were crossing the valley of prices for raisins. Our prices are fixed case of bad merchandising." high enough to make the growers a. In 1912 the morale of the raisin-stock corporation instead of a non- of success.

At first, prices were fixed on the duction," says Giffin. basis of the cost of production, plus a fair profit. This was soon abandoned lation was removed from it.

Increased Production.

The prosperity which attended the fifth of the present production.

that a twenty-cent price could have has worked out best." felt that it was too high to be just.

In order to sell the increased volume Giffin, is that it has eliminated specu- speculation ran riot in the raisin busit controls close to ninety per cent of of raisins caused by the larger acreage lation from the raisin industry and put iness. the raisins produced in the San Joa- the raisin association found it neces- it upon a stable, substantial basis. the three and a quarter cents that was mand. The first year \$100,000 was used sold their product direct to the packer

Plan of Organization.

because it was not practical. One year holders in the California Associated The only system which has worked the cost might be two cents per pound, Raisin Company. Most of them are out is the present one, under which the next year five cents per pound. growers, but a good amount of stock the farmers grow the raisins, the as-The consumer who eats raisins cares is owned by bankers and business men. sociation prepares them for market nothing for the cost of production; he About \$4,000,000 of stock is outstand- and sells them to the wholesale trade. adjusts his purchases to his wants and ing. The new contract with the grow- The speculators are entirely eliminatand the price he must pay. The raisin ers provides that each grower shall ed from the cycle." growers soon were back on the law of own \$4.00 worth of stock for each ton supply and demand, which they discove of raisins produced. Dividends of six es for raisins?" I asked. ered was not so bad when the manipu- to ten per cent are paid annually. Every member must own stock, and no raisins are handled for non-members.

The grower signs up for stock, he raisin industry when speculators were also signs away his voting power to a eliminated and prices stabilized led to board of trustees, twenty-five in numa tremendous rush into raisin growing. ber. These trustees are elected by The crop increased from thirty-five the stockholders by districts. They in thousand tons in 1912 to one hundred turn elect a board of seven directors, and ninety tons in 1919, and two hun- who manage the affairs of the comdred and ten thousand tons in 1920. It pany. This is the voting trust, an idea will probably be three hundred thou- borrowed directly from big business. sand tons within five years. Yet these "It is not democratic, but it works," crops have all been marketed success- says Giffin. It has been essential. Forfully, more being carried over from merly, in order to transact business one year to the next. Before the co- we had to call a stockholders' meeting. operative association was formed, the In a large gathering the fellow who

the mother of speculation, and the at-opening" price. There are about ten thousand stock- growers were nearly always robbed.

"But how about the high retail pric-

"It is due to profiteering by the wholesale and retail grocers," was the reply. "Consumers pay from two to three times what we get for raisins. We have gone as far as we can legitimately; its up to the consumer to meet us part way. The retail price of raisins is no concern to us except as it affects the use of them. Some day we may join the other cooperative associations out here and form a wholesale organization for all of our products, but we're a long ways from that

Raisin Growers in Court.

speculators were never able to market could yell the loudest got the most at- growers have been in almost continu- they incorporated under the non-profit all of the crop, though it was only one- tention. Now the trustees are elected ous hot water from government cooperative plan. by districts by the growers themselves sources because of the high degree of The past year or so have seen an —the trustees are practically all grow- control it has over the industry. They the matter through. "Our fight to orunusual boom in raisins, due to pri- ers, too-and they can give their un- have been investigated by the federal ganize and fix prices is attacked, just hibition. As one man remarked, "rais- divided attention to the affairs of the trade commission and are now prose- as the milk producers' right to organins are now our national drink," and company. They are a deliberative cuted by the department of justice unize has brought farmers into court all this demand has sent raisin prices sky- body. This plan of organization is a der the Sherman anti-trust law. It is over the United States," they say. ward. The association officials believe sort of benevolent autocracy, but it a fact, not disputed in California. that "Cooperative marketing associations been secured for the whole crop, but The reason the raisin association a firm of speculators in San Francisco fight, which is engineered by the spechas proved successful, according to who were one of the High Five, when ulative interests to destroy us."

quin Valley. It always paid more than sary to advertise to create a larger de- "The old system under which growers at four points, (1) percentage fixed the first year. In 1919 the aver- for advertising, \$150,000 the second, or speculator was inefficient and would sell raisins to packers and speculatage price realized was ten and a quar- \$440,000 last year, and \$600,000 this have destroyed the industry had it ors; (3) on guaranteeing to the grocter cents per pound. This year it is year. "It has meant success to us, for continued," he said. "The consignment ery trade a stable price to prevail it has solved the problem of over-pro- system which was used for several through the year; (4) on fixing prices years was vicious and rotten; it was on raisins through the plan of a "firm-

> The raisin growers defended their position stoutly. Several of the other cooperative organizations came to their aid, as also did the state department of markets; this latter action was approved by Governor Stephens. In fact, Colonel Harris Weinstack, head of the state department of markets, went to Washington to assist in the defense. The raisin growers were sustained on the right to control ninety per cent of the acreage and on the right to refuse to sell to packers or speculators. They lost the claim to establish a guaranteed price to wholesalers to be effective through the year, and lost the "firm-at-opening" price. According to Giffin, they were ready to abandon the "firm-at-opening" price plan, and can operate without the guarantee to wholesalers.

The department of justice has now hauled the raisin growers into court to answer charges of violating the anti-trust law. The raisin-growers might During the past two years the raisin have avoided the whole trouble had

The raisin growers are going to fight these prosecutions were instigated by have their existence at stake in this

Farmers' News Interests Now Broad

Struggling in the Business and Political Entanglements of this Reconstruction Period the Tiller of the Soil is Looking Every Direction for Relief

HE hides and leather market sit- went down to eight and ten cents for Kentucky, Minnesota and Arkansas THE National Grange at its coming uation has become a matter of cow hides, and fifteen to eighteen having adopted these grades. The wool session will be asked to endorse menting on the demand for country er and farmer. hides, which comprise more than a duced in this country, the Daily Hide date, says that there is little in the market. Tanners continue to talk lower prices. The New York market is ditions continue dull. It is reported by the trade that seventeen tanneries owned by a large sole leather concern are closed down and that only limited quantities of hides are being worked in other yards.

C. V. Whalin, assistant in marketing live stock and meats, of the federal bureau of markets, says that while in industry on a sound economic basis. Kansas City a few days ago he saw a car of two hundred bull hides, four hundred cow hides, fifty calfskins and seventy-five kip skins, sold at eighteen cents a pound for the lot.

there was also a slackening in the demand for shoes and leather in this country. The shoe factories and dealers were over-stocked and trade be- wool grading proposition now being been held for fifteen years showed no retary of the Treasury Houston show came dull. The tanners ceased buying worked out by Mr. Willingmyre. Wool trace of moth. The moth does no dam-little inclination to consider the farmhide stock and there has been very lit- is being graded according to govern- age at temperatures lower than sixty er's credit needs. In proportion to the tle trading in hides and skins since ment grading standards in large quan- degrees F., for at that temperature it size of the peach crop in the western

serious concern to farmers. Com- cents for calfskins, to the small butch- market section of the bureau of mar- the proposal that this government

third of all the hides and skins pro- there will be a revival in the hide mar. reau has had to let go several men spent in this country for food and raw and Leather Market Report, of current wearing patched shoes, but these old shoes are wearing out and the time way of actual trading in the Chicago will soon come when they will be compelled to purchase new shoes, and this will relieve the market and the dedull, with no signs of improvement. mand for hides will again be restored Boston reports that hide market con- to normal conditions. Mr. Whalin suggests that farmers and local butchers take more pains in the production and care of hides, which will tend to eliminate the discrimination now existing against country hides. Dishonest pract moths, Mr. Willingmyre wishes to call our wheat, barley and other cereal tices must cease. In fact, he says that improvement in country hides is nec. prepared in which he says that "own-Germany, it is asserted, proposes to essary to put this branch of the hide

THE wool market continues in much condition as the hide market. A significant feature of the wool market sit
The hide market, according to Mr.

The hide market, according to Mr. Whalin, reached its highest point in uation worthy of note, was the falling fore the coming of cold weather. It Whalin, reached its highest point in off in quantity of wool consumed in requires about two months for the development of one generation of the exchange conditions became unfavorable to the export trade. At this time the wool market investigations in the

July of this year. Country hide stock tities, Maine, Vermont, Ohio, Virginia, remains dormant."

Mr. Whalin predicts, however, that on acount of a lack of funds. The bu-dollars to Germany, the money to be ket sometime soon. People have been who were greatly needed in making material. It is claimed that unless investigations. If wool is to continue such action is taken the United States to be a factor in American farm pro- will lose an outlet for vast quantities duction it is essential that congress of farm products which will react disappropriate sufficient funds to enable astrously on American agriculture. A the bureau of markets to carry on the continuation of the present small vol-

the dealers of injury to the wool by dence of moth injury at the present States, providing this credit is grantthe wool market investigations in the period will be considerably lengthen. The interstate commerce commission ed. Cases have been reported to the seem unable to function in this matter Wool growers are pleased with the department in which wool that has and the federal reserve board and Sec-

kets is greatly hampered in its work grant a loan or credit of one billion important work it has begun in solv- ume of export trade for American proing serious wool marketing problems. duce means there will not be any for-In order that wool growers may not eign markets left for our farmers' surbe led into hastily selling their wool at plus products. Because of a lack of a low prices because of the claims by foreign market our corn crops, estimated at three billion bushels for 1920, their attention to a statement he has crops are greatly reduced in value. ers of wool held in storage need not purchase in the first year an estimated fear losses resulting from moth attack amount of \$750,000,000 worth of food before next spring if there is no evi- and raw materials in the United the same depressed and uncertain moth appears at this time, it is improbbillion dollars or more of alien prop-

> E FFORTS on the part of the farm-(Continued on page 455).

Watch the Buckwheat!

By Walter Jack

was stacked. Several days of wet selling for \$2.40 per hundred pounds, the buckwheat was stored, the grain realize not only profit but save trouble commenced heating.

it should not be placed too deeply in and more if ground for dairy feed. bins, but better be spread so that it can be shoveled. One should thrust his TO ENCOURAGE USE OF APPLES. arm deeply in the grain and this should be done not in one place but at different points. In addition to this fifteen inches long for stirring. Heating commences in pockets, perhaps not tion of all organizations of producers, larger than a man's hat. This is apt to spread. It may start with a partic-solicited to make it a success. The ularly damp measure full of grain. If campaign started with "Apple Pie ous to feed. If it is heated slightly into maturity. It is expected that at and cooled before it cakes or swells, opportune times other weeks will rethere is little danger in using it for ceive appropriate names. feed. We are using some now which had started heating but was observed

dry will be in danger. Buckwheat that New York City. J. B. Pease and L. R. tion may quickly heat and become a committee, recently attended a confercaked mass. Two nearby farmers felt ence at which a majority of these entirely satisfied the past spring that stores were represented. The repretheir seed buckwheat was perfectly sentatives believe their companies will dry. They felt it in the spring, and at be willing to cooperate in helping disthe time it was perfectly cool. Two or pose of the apple crop on a basis which three weeks later the grain was spoil- will be mutually beneficial to both proed, and they were compelled to pay ducer and consumer. \$4.00 per hundred for seed. I came near having this experience. I found a pocket perhaps about the size of a keg. This was heating. I removed the grain in that portion of the bin, and stirred the remainder daily.

perhaps may smell a little, it will still we know exactly the size and number make chicken, dairy or hog feed. It of apples and find that each apple is will grow. I have tested and planted sound. This is not true of the New that which had heated a little but not York state barreled apples. However, swelled. However, I would advise the if the New York grower can give us farmer to figure on sixty to seventy apples in barrels, boxes or baskets five per cent germination. Buckwheat with statement of grade, size and numwhich had badly spoiled caused a con-ber of apples in container stamped on siderable loss in a neighbor's poultry the top, the retail merchant can disflock, when fed.

One should save the buckwheat in more.

HEN the buckwheat crop is har- It can be fed profitably ranging from vested, it is essential it should twenty to fifty per cent of the grain be saved. The danger in heat- ration. It is usually advisable to feed ing is above that of other grains, and about twenty-five per cent but we have it is necessary that the buckwheat bin fed it as high as fifty per cent of the should be carefully watched. The dan- grain ration to dairy cows, and it provger arises principally from dampness ed one of the best milk producers. We at time of threshing. Threshing usu- have read criticisms of buckwheat beally occurs in late September, October ing an irritant, but this year from or November. The weather is frequent- about June 1 to August 15 we fed a ly damp or wet, consequently the grain bunch of nine pigs whole buckwheat, goes in the bins in damp condition, scattering it well on the ground so it Grain is usually hauled from the field, required some time for them to conand if work is started at a fairly early sume it. We fed whey, and the pigs hour in the morning, there will be suf- were on pasture, and were supplied ficient dew or frost on the buckwheat mineral matter, and they were as good to affect the efficiency of the thresher. as any pigs we have raised. We have This will also cause dampness in the fed some buckwheat to horses, and grain. This year a portion of our grain with oats at present prices, buckwheat weather followed. We started at the with little demand just at present at earliest moment threshing. The top those figures, one can feed this grain of one stack was not properly dry. In in the dairy, poultry and to hogs, makthat corner of the building in which ing it a part of the grain ration, and and expense of handling it.

Buckwheat should be observed from Save your buckwheat for you will day to day in the fall, particularly if pay \$2.00 a bushel for seed next year, there has been dampness about the and fully as much if you buy it back in unthreshed grain. If this is the case the spring or summer for chicken feed

THE New York State Departmen I use a tiling spade with blade about ing a publicity campaign to encourage of Farms and Markets is conduct a greater use of apples. The cooperadistributors and consumers is being Week" when the Duchess apple came

Believing that new channels should be opened up through which the apple Buckwheat may show no signs of of Farms and Markets has been holdcrop can be marketed, the Department heating in the fall, but when the warm ing conferences with representatives spring weather comes, much that is of the large chain grocery stores in is apparently dry and in good condi-Simons, of the federation marketing

> The following statement by Mr. Grater, of the Atlantic and Pacific Tea Company, summarizes the ideas of the majority of the firms:

"We want small packages and have, therefore, used box apples in prefer-If buckwheat has become warm, and ence to barrels. In buying box apples pose of them to better advantage."

In order to secure the cooperation of the bin. With flour at present prices, all the growers and organizations conand commercial feeds at figures now cerned with the marketing of the 1920 quoted, buckwheat is worth not less New York state apple crop, two conthan \$3.75 for dairy feed and not less ferences will be held in the near futhan \$3.25 for hog feed, and perhaps ture when representatives of the chain stores will attend. Western New York As poultry feed it is worth as much growers realize that something unusas for dairy feed, and it ranks next to ual must be done to take care of the wheat in our experience for chickens. mammoth crop this season.-A. H. P.

Butter and Eggs via **Motor Express**

N addition to over a million farmerowned automobiles, 18,000 farmerowned trucks, and approximately 100,000 farm tractors, there are 519 motorized Express Companies doing business in the states served by the Standard Oil Company (Indiana) and this number is growing day by day.

Automotive Industries for 1920 declares "Trucks are operating on railroad schedules, and have proved more dependable, on a time basis, than the steam roads have ever been. Their use to replace the freight car for certain classes of freight has proved a marked success."

The Smithsonian Institute, United States National Museum Bulletin 102, says, "In respect to prompt delivery of farm produce, whether to railways or directly to towns, the motor truck has an exceptionally useful opportunity.'

It is these motor trucks, tractors and farmerowned automobiles that are largely increasing gasoline consumption, particularly in the Middle West.

During the first four months of 1920, the production of gasoline increased 13½%, while during the same period, domestic consumption of gasoline increased 331/3%. This excess of consumption over production has been a potent factor in the advance of gasoline prices, but the dominant underlying reason has been the increase in the cost of crude oil.

The service rendered by the Standard Oil Company (Indiana) lies in manufacturing and distributing to the tractor, the truck, and the automobile a dependable supply of gasoline and lubricating oils, and selling them at a fair price. The latest refinery methods are producing a continually increasing percentage of gasoline from each barrel of crude oil. While large-scale production and distribution assure maximum economy in this industry, the savings effected by the Standard Oil Company (Indiana) are utilized to hold down gasoline prices despite the rising tide of demand for petroleum products.

Standard Oil Company

910 S. Michigan Avenue.

Chicago, Ill.

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(NEWS ITEM)

"Mrs. Ada Willbanks, of Fancy Prairie, Illinois, was awarded the Grand Champion prize for farm dairy butter at the 1920 Illinois State Fair at Springfield. Mrs. Willbanks' bulk butter tested 93 1/2 and her prints tested 9334."



Mrs. Willbanks uses a

PRIMROSE Cream Separator

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Cloverland Farmers Active

doubt that it will come across hand- beauty of the fruit.

standpoint of the organizers. Most of prolific. the farmers in these counties are bebers in this section of the state. All sible than he had supposed. the counties adjoining Lake Superior In preparation for a tour of the upabout to be launched there.

sive, prosperous rural life. Ironwood Montreal to Vancouver. township, containing about one hundred and twenty-five square miles, con- STORING MICHIGAN'S POTATOES. tains eleven school houses, nearly all of the new standard type of constructeaching agriculture—real agriculture, shipments. as at Otter Lake in Houghton county. tle damaged by frost.

While the upper peninsula is not a where blight is absent. peach-growing country, some years. The careless handling must be elim-

HE campaign for members of the dead, buds from it were secured by the Michigan State Farm Bureau in Michigan Agricultural College, which the upper peninsula goes mer- has sought to propagate the "Marrily on. Saturday, September 25, Mr. quette Peach" in order to obtain a R. N. Bates, organizer for the bureau, hardier variety. In this effort the Unitmet, at Ironwood, J. W. Weston, as- ed States Department of Agriculture is sistant state leader of county agents, also interested. Mr. Blemhuber's bearand Mr. C. E. Gunderson county agent ing tree is a descendant of the parent of Gogebic county, for the purpose of Marquette peach tree, through one of establishing the farm bureau in this, the agricultural college's buds. It is the most westerly county of Michigan. now three years old and flourishing. Gogebic is a large county and well de- Its maiden effort is not remarkable as veloped agriculturally, and there is no to numbers but is so as to size and

As elsewhere in Michigan, this has So far the organization work of the been an excellent fruit season for the State Farm Bureau has covered Chip- upper peninsula, especially in the area pewa, Marquette, Menominee, Delta, adjacent to the Great Lakes. Even Schoolcraft and Luce counties of the on the high tableland in the western northern peninsula, and is well under portion of the district, whose elevation way in Houghton county, the most is some nine hundred feet above the populous county north of the straits. lakes, there are some fine stands of The results in terms of members se- apples. In some places apples, plums cured are most gratifying from the and cherries have been extraordinarily

Mr. Charles Burtless, brother of the lieved to have been seen, and Mr. secretary of the Michigan State Tax Bates reports that of those approach- Commission, and an extensive sheep ed, ninety-two per cent joined the farm operator in Iosco and Ogemaw counbureau in Menominee county, eighty- ties, visited "Cloverland" the past five per cent in Marquette county, week. He saw some sheep and some ninety-four per cent in Delta county, sheep land which pleased him greatly. ninety-six per cent in Chippewa coun- He pointed out that western sheep ty, ninety-six per cent in Schoolcraft men coming into the district would, to county, and ninety-five per cent in be successful, have to change their Luce county. Most upper peninsula methods. They cannot depend upon farmers are of immediate European the range for winter feed; but, he obdescent. Probably the largest single served, there is no good reason why element is Finnish. There were over the farmer cannot produce his own fifty-five thousand in Michigan in 1910, winter feed for even large numbers of measured by the test of language, and sheep-here as he has done in the all persons of Finnish descent do not southern peninsula. He thinks alfalfa speak the Finnish language. The Finns the coming forage crop for this induscooperate much more readily than the try in the winter season. He noted the Yankee, which doubtless helps to ex- large quantity of natural grasses here. plain the large success of the State due to abundant summer rains, and Farm Bureau in securing Finnish mem- found the Chicago market more acces-

have many Finnish farmers; and the per peninsula by the Michigan Pikes' large number of rural Finns in Gogebic Association in 1921, a path-finding comcounty is one reason for faith in the mittee of the association will pass success in the membership campaign from east to rest through the peninsula during the week of September 27. I have just returned from a trip to Not a few of the choicest spots in the Ironwood and the farming section in northern peninsula lie off the main its vicinity. The cut-over lands be- line of travel, and if time is not to be tween Ironwood and Lake Superior are wasted and rare opportunities for being definitely brought under cultiva- sightseeing not to be missed, it is detion, chiefly by Finns, who have the sirable that tourists should have inforrequisite tenacity and aptitude for the mation and guidance as they pass rough work of agricultural pioneering. through the terirtory. Eventually it The soil is an excellent clay. On the is proposed to link up this route whole, it is not easy to find in Michi- through northern Michigan with the gan a community with more attractive "King's International Highway" in Onfarm homes and ampler barn facilities, tario, thus affording another link in including silos, indicating a progres- the great transcontinental route from

(Continued from page 431). tion and with an equipment unusual in mous complaint and in the aggregate, rural schools in Michigan. The school enormous loss: (1) Field frost depreboard is composed all of Finns and ciated many otherwise excellent ship-Swedes. The chief short-coming is in ments: (2) rough, careless handling not consolidating their schools and caused a great deal of rot in 1919

The first of these troubles is not al-This is a potato country, and school ways easy to avoid. With a late growwill be let out Monday and Tuesday of ing season and an unexpected freezing this week, to permit pupils to assist in of the ground to the depth of three or arvesting the crop. There is an ex- four inches, many fields of potatoes cellent stand of fodder corn as yet lit- are nipped and the tubers rot badly in storage or shipment. The farther Robert Blemhuber, of Marquette, a north one goes, the sharper the farmer member of the board of directors of must watch weather conditions and the State Farm Bureau, is the proud get the crop in as soon as possible. possessor of a peach-tree bearing fruit. This is advised this year in any area

ago one Marquette peach tree distin- inated. With potatoes at one dollar a guished itself as a real producer of the bushel, each good-sized potato is worth fruit. The growth of this tree was ac- about a penny. If an apple grower cidental, and is said to have been due handled his apples as many potato to a pit from a California peach casu- men handle their potatoes, he would ally thrown away in a Marquette back- lose his entire crop. The individual yard. The seeding developed true to potato is worth almost as much as the type, and, while the parent tree is now apple but contrast the method of hand-



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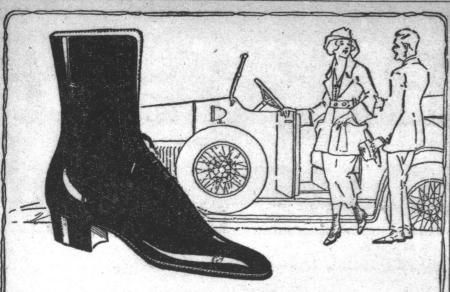
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harvesting and wood-cutting machinery because of the easy-rolling qualities of these helpful pneumatics.

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ling. The one is picked to avoid all Pit storage is commonly employed bruising, carefully graded and packed, throughout the state. It has the adinjured by forks or by careless tramp- keeping the tubers better than the oring in the car, until the marvel is, dinary warehouse storage, and the disthat a larger percentage of the crop is advantage that the tubers are not not lost in this way.

Who has not seen potatoes scooped weather. into a chute into a grocer's storage product.

handling must endeavor to keep the sons 'wrapper" intact. It is evident, with the potatoes dug early, that the problem of preventing deep injury to the tubers with tender skins is difficult.

Michigan potatoes are stored in warehouses or cellars or are pitted. Occasionally requests come to know with what a storage cellar should be fumigated or disinfected. The warehouse should be cleaned of all old, rotting tubers and thoroughly aired and dried. No special disinfection is necthe money and time for false floors to provide good circulation than to try to disinfect the bins. The rotting organisms are all about the potato. They are native to the soil. Conservation The black heart condition which deskin and cool, dry, air conditions.

by lattice work or by rows of crates. this uncertain fall market, is worthy Potatoes tend to sweat upon being put of careful handling. into storage. Ventilation is necessary be kept as dry as possible, yet avoid- which has its old, old problems, the ing shriveling, and should be kept as potato crop still remains the most innear the freezing point as possible, yet teresting and perplexing to raise and avoiding freezing.

while the other is bruised and dumped, vantage with the ordinary season of readily obtainable for shipment in cold

A pit should have a base of clean, cellar, and permitted to drop from dry straw and if at all large should three to ten feet into a bin? Such a have a straw chimney connecting with bruised crop under the warm, moist the base to provide ventilation. It is cellar conditions commonly given, is the custom to cover lightly with dirt likely to show severe rotting. The until a snow-fall, and then complete farmer must realize that in the long the covering with another layer of run he pays for this rotting of his straw and earth. Where provisions for ventilation are not provided, a The sound skin of a potato is its blackening of the hearts of the tubers best protection against rotting and has taken place commonly in mild sea-

It is doubtless needless to say that only sound, uninjured tubers should be put into storage.

Michigan's problem, then, is economically to gather, store and market her vast potato crop. Whether the crop is moved at once or held in storage, the farmer must exercise care in handling, protect from frost, and prevent deterioration. A common fault in the past has been to injure seriousessary. It would be better to spend ly by bruises or wounds. In addition, serious loss from rotting arises from warm, moist storage conditions.

The cardinal principle is to provide ventilation and to keep the tubers cool. of the tuber depends upon the sound veloped so markedly last season may be avoided if the tubers are well aer-Large piles of potatoes should have ated and do not get too warm. The ventilation channels provided, either potato even at the lowest offering of

Whether the farmer is in the eastto dry this moisture. Only a general ern half of the state which must conrule can be given, but potatoes should tend with a little blight, or in the west

At the Grand Rapids Fair

stress. There was the usual exhibit find life considerably easier. of fancy work and baked goods, of It was a little disconcerting, though, nestly to decide impartially on the mer- might see as eager a demand for the its of loaves which to the uninitiate things to lighten labor. all looked too good to be true.

displays of handwork and machine clinic where literature was given out work yokes, lingerie, comforts, lunch- to mothers and fresh milk to the kideon sets and sweaters were always dies under five years. Here every afsurrounded by visitors. Woven bed ternoon "Cho Cho," the clown, cavortspreads dating back ninety years made ed for the amusement of the children, one wish the spinning wheel and loom and the Health Fairy told them storhad not been utterly discarded. These ies calculated to inspire them to eat spreads were so much lovelier than and drink the proper foods, and look the commercial ones of today, or even out for fresh air, baths and exercise. the knitted and crocheted ones, that Next to the baby clinic the W. C. T. one wished grandmother hadn't drop- U. workers gave out circulars outlinped all great-grandmother's ways when ing care of the expectant mother, prepthe age of machinery opened.

T was a regular fair—the big West blows, then Michigan farmers are go-Michigan show held in Grand Rap- ing to have to spend some of this ids, September 20-24. Judged by year's potato money on household conany standard, crowds, noise, midways, veniences. Many a woman studied the hot dogs, big pumpkins, fine stock, exhibits of vacuum cleaners, power patchwork quilts, commercial exhibits, washing machines, ironers, electric small boys underfoot and daring aviat- irons and motor-run sewing machines, ress overhead, it was a hummer from and with a sigh, said they wished they opening morning to closing night, had electricity. But many more stud-There was plenty to see, much to learn, ied the exhibits interestedly, and with places to rest, and more ways to spend the remark, "We must have electricmoney than even Coney Island can ity," turned to the booths where farm power plants were on display, and in The newly enfranchised voter came business-like tones discussed prices into her own. Everything which could and terms. One power plant director in any way interest women was played said that his firm alone has installed up, and every way you turned you saw fifty-seven plants since June, and something to remind you that woman counting in what his competitors must is an important member of the firm have done, it looks as though a large these days, instead of cook and seam- number of farm women were going to

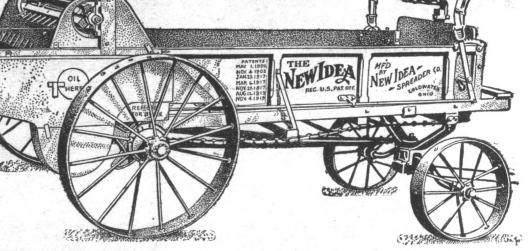
course, but woman's part in the fair to turn from the labor-saving machinwas not confined to this sort of thing, ery to the phonograph booths. Judging The millers and grocers of West Mich- by the bargain counter crowd waiting igan encouraged women to show their to give their name and address on the skill, by offering prizes for bread, chance of drawing a record at four p. cakes, pies and all sorts of baked m., every home in the state has its goods. Perspiring judges labored ear-talking machine. You wished you

Interest in public health and morals The fancy work booths, with their was not lacking. There was the baby

aration of the baby's food, feeding the If straws show which way the wind older children, and a list of books

For the Biggest





EEDING the soil that feeds your crops-replenishing your land regularly with Nature's greatest soil sustainer, manure-it's the biggest job on your farm, the most important.

Successful farmers everywhere realize this. They know that yields increase yearly and land rises steadily in value, when the greatest of fertilizers--stable manure--is used as it should be used.

If you want to make certain that this job is being taken care of in the best possible way--as well as the easiest--if you want to know that every ounce of fertilizing value in your stable manure is saved to feed your growing crops--get a New Idea Spreader.

It is the one spreader that gives you the greatest worth out of your manure with lowest upkeep and least amount of work for man or team.

Straw Spreading Attachment Gives Two Machines in One

BIG capacity one man straw spreading attachment gives you double use and double spreading profits from one machine. Shreds the straw fine and spreads it evenly, 8 to 10 feet wide. Quickly attached or taken down. Simple, light and compact, it takes up little space when not in use. Your dealer will show you. Or, use the coupon.

Our interesting little book entitled "Feeding The Farm" will be sent free to any farmer. Contains much highly valuable information on soil fertility. No obligation--use the coupon.

The Original Wide Spreading Spreader

Actually Does Better Work

THE NEW IDEA SPREADER pulverizes perfectly. It beats and shreds every scrap into fine particles and spreads its load lightly in a thin even blanket, seven feet wide. No bare spots--no spots too heavily manured.

The New Idea is the original wide-spreading spreader. It is light draft, easy to load and built for years of service. Solid bottom--no slats--powerful chain conveyor--no gears to break in cold weather.

The New Idea is strong, sturdy, always on the job. It saves time, energy, work--and gives you the last bit of soil-building value that lies in the manure.

The New Idea is the safe spreader to buy-the product of "Spreader Specialists" -- a standard implement of known quality.

Our Gold Seal Guarantee absolutely protects you against breakage or defects. Ask the New Idea dealer in your town to show it to you when he shows you the machine.

The New Idea Spreader Company "Spreader Specialists"

COLDWATER,

Branches at —

HARRISBURG, PA.

INDIANAPOLIS, IND.

CHICAGO, ILL.

MINNEAPOLIS, MINN.

OMAHA, NEBR. PEORIA, ILL. SYRACUSE, N. Y. COLUMBUS, OHIO

Kansas City, Mo. Jackson, Mich. Waterloo, Iowa St. Louis, Mo.

OHIO



THE NEW IDEA SPREADER CO.

COLDWATER, OHIO

Please send me without obligation,

Free copy of your new book, "Feeding the Farm." Name and address of nearest New Idea dealer.

Street or R. F. D.





Fall Painting costs less than spring

There is at least one big reason why Fall painting will will put painting off until Fall cost you less. Putting it off —and so it goes on from bad until next Spring, after your buildings have gone through another Winter's wear means they will take more paint to paint them. That's just the plainest kind of plain horse

Then another thing: next Spring you will be so rushed

to worse.

Any way you figure it, you can save money by painting this Fall. And speaking of saving — send for circular called — "Figure Your Paint Costs with a Brush—Not a Pencil." Remember that Lowe Brothers' Paint is sold by the one best dealer in each town.

The Lowe Brothers Company,

499 EAST THIRD STREET, DAYTON, OHIO

Boston New York Jersey City Chicago Atlanta Kansas City Minneapolis Toronto

That Wholesome Table Drink POSTUM CEREAL

gains new friends right along because of its pleasing taste healthfulness, and saving in cost

Postum Cereal is delicious when properly made: boil fully fifteen minutes after boiling begins. The more you boil Postum Cereal the better it is.

When ordering be sure to get the original POSTUM CEREAL

A 50-cup package usually sells for 25¢

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



up with leaflets which warned against checking, also free of charge

mand they arose, walked, jumped, hop- show room in Buff Leghorns.

most interested in the athletic con-cared for, well advertised and well entests. City and country were matched tertained, and they quit the grounds in jumping and throwing contests, and with a strong "come-again-next-year" records made of each child's achieve- feeling.

which mothers might buy to help them ment, together with the weight and in their big work. Boys were loaded height of every contestant.

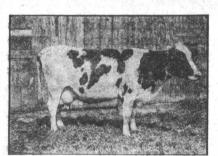
As further evidence that she is a the evils of cigarettes, and charts and many-sided individual and can keep posters told their story of public wel- the home going, looking out for health, fare. Then there was the Red Cross manners and morals, and still have booth with its drive for community time to make a few dollars on the side, nurses, the anti-tuberculosis workers women invaded the poultry exhibit showing what preventative measures and carried off numerous prizes. In we all should use, and last, but not the dark Barred Rock exhibit, which least, the Michigan Community Coun- Secretary J. A. Hannah, of the West cil center, where a free playground for Michigan Poultry Association, describchildren was provided and a booth for ed as "the hottest competition ever gotten together," Mrs. Reva Murphy, The schools had a building all their of Muskegon, carried off the first and own, where, in addition to the exhib- second prizes for hens, and the third its, demonstrations were given at var- for cockerels, while in light Barred ious hours of the day. Boys showed Rocks she took first, second, third and what is being taught them in manual fourth for cockerels, and first, second, training, and girls from various schools fourth and fifth for hens. Mrs. Arthur gave food talks. There were exhibits Rigg, near Grand Rapids, took first for of work done by kindergartners, bas- cockerels, and first, second, third, ket work, samples of writing and dis-fourth and fifth for pullets in the plays from the art department. One White Wyandotte contest. Mrs. James of the interesting demonstrations was R. Robbins, of Muskegon, took fifth for that of the school for the deaf and cockerels and fifth for pullets in the hard of hearing. A dozen boys and Buff Wyandottes, and Mrs. R. Kolengirls from eight to ten years old car-drander, of Grand Rapids, carried off ried out the teacher's orders by read- first for cockerel, first for pullet, first ing her lips. At her whispered com- for hen, and had the best pen in the

ped, sat down, bowed, carried out a Michigan women have reason to be dozen mechanical orders. Then step- proud of their showing at the West ping to the board in turn they wrote Michigan Fair. Perhaps the fact that the sounds of various letters which a woman, Miss Olive G. Jones, is secthey determine by watching her lips. retary, may have had something to do The youngsters themselves were with it. At any rate women were well

Our County Farm Bureaus

(Continued from page 434). ed Hampshires.

center its efforts upon. The coal and school. fertilizer situation was desperate until



From Holstein Herd of Mrs. Hollis.

coal in this community cost around his place by human effort. bers of the executive committee gave were absent from the farms the day I their personal notes in the sum of \$250 called. A half mile west on the same each, to guarantee the shipments of road is the farm home of the esteemed selected seeds, such as clovers, alfalfa, county agent, where I was pleasantly etc., a special service to the members entertained by him and his estimable of the farm bureau."

a big, successful one, whose ideas of delightful episodes of recent years. farming are decidedly different from

ty acres, situated about five miles pigsty is new and ready for more blood- south of Owosso, is part of the old homestead of his father, who was a "The buying and selling of farm sup- graduate of the M. A. C. in 1863. He plies and products," said Mr. Han- himself was a graduate from the same chett, "is the most important work in college thirty years after, and at presmy judgment that the farm bureau can ent two children are attending the old

On the old farm Mr. Cook grows genthe bureau made contracts for these eral crops, and this year had twenty needful supplies, and the traffic depart- acres in beans, twenty-four in wheat, ment of the State Farm Bureau, re- twenty-four in oats of the Wolverine cently organized, hurried shipments strain, and a small acreage in sundry through to our various community lo- crops, but without any beets. He has cals. Under this system, as you may a valuable woodlot of thirty acres, a know, the farmers of the state have sugar bush containing one thousand employed an expert to attend to their sugar maples, and a large orchard transportation problems, just as great bearing one of the best and biggest corporations employ expert traffic men crops in years. He raises no stock and only a little poultry.

It is in this last respect that he differs in farm practice from his successful neighbors. With the exception of the faithful watchdog and the family cat there is not an animal on his place. He doesn't believe in cattle, sheep or hogs, as a necessary adjunct to successful farming, and for a number of years has had none. Nor does he buy manure for fertilizer to supply the lack of that element in his farm production. He does believe in and uses whereever needed proper commercial fertilizers, and has demonstrated in a to adjust and speed up shipments. This most practical way that when rightly new state office, I understand, has de-used they furnish all the enriching veloped into an efficient service de-qualities the soil needs. He is a mepartment that aids each of the other chanic farmer, for nothing that a modepartments of the farm bureau. Our tor or machine can perform is done on

nine dollars a ton, and fertilizer about Directly across the road is the rarm \$30, so you see a considerable saving and home of Clayton Cook, a cousin of was effected by those farmers who A. B. Cook, and a mile south the farm availed themselves of the bureau order of C. B. Cook, county agent of Oakland service. Only the other day the mem- county. These progressive farmers wife. All in all, my jaunt through Shi-A. B. Cook, Owosso, is a farmer, and awassee county was one of my most

Some Other Farm Features.

Mention The Michigan Farmer When Writing to Advertisers. the ideas of his fellow farmers. His before bringing this story to a close beautiful farm of one hundred and six- I should make mention of a few other

"SNAG-PROOF" Rubber Footwear



Have You Ever Compared Leather Shoes With Snag-Proofs?

LEATHER is high. Snow, sleet and slush ruin leather shoes. They can't keep your feet warm in mean weather.

Snag-Proof rubber footwear has not advanced in cost anywhere nearly as much as leather. Yet it is more comfortable, warmer and gives better service during winter. No matter how bad the weather is, if you are wearing Snag-Proof rubber boots, shoes or arctics, your feet are kept warm, dry and snug.

And you can't get better rubber footwear than Snag-Proof. Nearly

fifty years of progressive study have enabled us to make truly exceptional rubber footwear. The green Snag-Proof label is on every boot, shoe and arctic. Look for it.

Have you met the Snag-Proof dealer in your town? His proud boast is that once he sells a mar a Snag-Proof boot, shoe or arctic, he has made a permanent, satisfied customer. Let him show you the footwear that will please you in every respect. He has the right style and grade to fit your need at the price you want to pay. Look him up.

LAMBERTVILLE RUBBER
COMPANY
Lambertville, New Jersey

brainy farmers who are doing things

in Shiawassee. Over in Middlebury township, directly west of Owosso, is the place of Harry Oven, a college man who, a few years ago, took what was reputed to be the poorest, rundown farm in the county. Wise heads scoffed at his declaration that he would make something of the land, but he persevered and today has proved that anything that any land in Shia-

wassee can grow can be produced in paying quantities on his farm, from alfalfa to potatoes. His specialty, how-

The Complete Dormant S

Controls { Fire

SCALECIDE controls Pear Psylla, when applied in the Fall, by killing the adults before they lay their eggs. (After they lay their eggs in the Spring it is too late.) Scalecide also controls fire blight by penetration. ing the diseased tissues and killing the hold-over canker from which fire blight is spread. It is not only a contact insecticide for scale, but has fungicidal and germicidal properties too.

It Invigorates Tree Growth

The invigorating effect of Scalecide is noted in increased terminal growth; larger, darker foliage on bearing trees; and the holding of the foliage later in the Fall, thus accumulating starch and sugar which results in a plumper fruit spur and insures a larger crop the following year. Those who have used Scalecide and lime-sulfur side by side claim that Scalecide gives greater yields of fruit—in one case 58%.

Reduces The Cost Of Labor

Though Scalecide costs more per gallon than lime-sulfur, this is much more than offset by

B. G. PRATT CO. 50 Church Street Manufacturing Chemists

the saving of material and labor. One barrel of Scalecide, making 800 gallons of spray, will cover, until they drip, as many trees as three and a half barrels of lime-sulfur, which make 1600 gallons of spray. And of course you can apply 800 gallons of Scalecide in much less time than 1600 gallons of lime-sulfur.

A Pleasure To Use It

Scalecide is soothing and antiseptic to the skin; it does not injure even the eyes; it is non-poisonous to man or beast; and being an oil, it makes the pump run easier and does not clog the spray nozzle. It is a pleasure to use it!

The Demand Is Heavy

The past year many fruit growers were disappointed because they could not get Scalecide. This year, though we have doubled our factory capacity, we anticipate difficulty in meeting the demand. Order early and avoid disappointment. Write today for our free booklet, guarantee and prices, and give us your dealer' name. Use the coupon below. Address Dep't 13.

NEW YORK CITY



ever, is the growing of gladioli, and this year he had one hundred acres of this beautiful flower in bloom. It was a wonderful sight—that vast expanse of harmonious color, waving gently in the breeze. Remarkable, too, was the enterprise displayed in producing such a quantity of flowers for a ready market in Chicago. About two miles north in the same township is a quite remarkable round

Mr. Dennison Selects this Sire to Head George Winegar & Son's Herd.

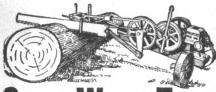
barn of huge dimensions, owned by H. W. Hubbard & Sons. The Hubbards are extensive breeders of high-grade mules, and are well known throughout this part of the state. They also cultivate a splendid orchard of forty acres.

At Burton, six miles west of Owosso, is the farm of James N. McBride, who is well known to our readers as the author of valuable farm articles in our journal. He is a very successful farmer of the brainy, advanced ideas type; and among his farm crops this year had a notable field of thirty acres of No. 6 Jr. wheat.

Of more than passing interest is the farm of John Carruthers, which is two miles north of Bancroft. He is the potato king of Shiawassee, having this

"Makes a Tree Outgrow Its Troubles"

My dealer is: (Name) (P.O.) (State)



Does the Work of Ten Men - 1 Cost

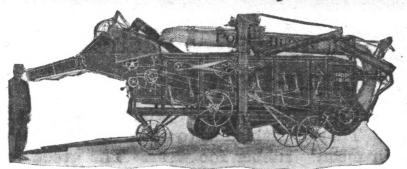
This one-man cross-cut saw outfit run this one-man cross-cut saw outh run
by gasoline engine cuts 15 to 35 cords of wood a
day—fells trees—makes ties—runs machiney. One
man or a boy can handle it. Easy to operate, easy
to move. Engine can be used for other farm work
when not sawing for yourself or neighbors.

PHILLIPS ONE-MAN DRAG SAW

Fast money-maker and big labor saver. Work any-where in any weather. Simply send name—a post card will do—for free folder and special prices. PHILLIPS DRAG SAW MFG. CO. 803 Phillips Bldg., Kansas City, Mo.



Individual or Community Thresher



PORT HURON 20x34 TRACTOR SPECIAL THRESHER

seeds and grain, (including clover, timestry, alfalfa, peas, etc.) and is fully guaranteed the same as our standard 18 Horse Power will run it. size threshers.

most convenient and accommodate if in a hurry, wire us at our expense.

This machine has good capacity and your neighbors. It will take only a can be operated with any small steam engine, or gas tractor.

Will do excellent work in all kinds of seeds and grain, (including clover, including clover, i

Save your own grain; thresh when der is received. Write us for catalogue, or,

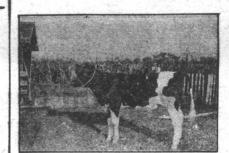
PORT HURON ENGINE & THRESHER CO., Port Huron, Mich.

MICHIGAN LIVE STOCK INSURANCE COMPANY

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

308 Davidson Building,

Bay City, Michigan dred colonies.

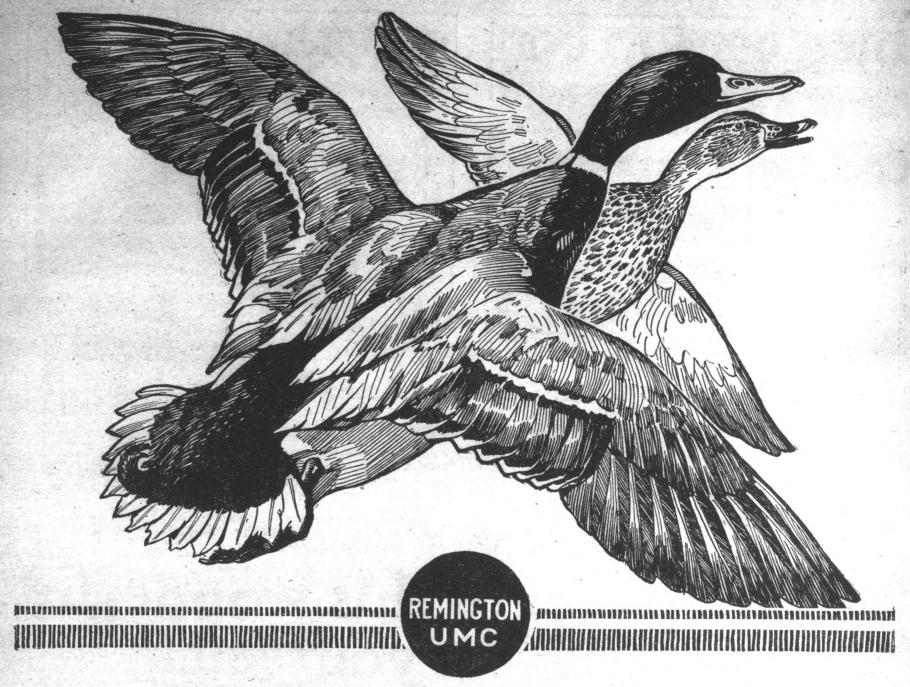


This Daughter of 35-1b. Bull is Owned by B. E. Simth.

year one hundred and thirty acres planted to spuds. He makes a scientific study of the handling of potatoes on a large scale, and in the farm contest last year was rated the best grower in the county.

Dan Richardson, a young farmer having sixty-eight acres two miles the culture of grapes. His vineyard of four acres, of Moore's Early variety, is wonderfully productive this year, and I found him busily engaged in preparing a consignment of four and fivepound baskets of the sweet fruit for market in Owosso. A field of twenty acres of alfalfa was about ready for its third cutting this season. His orchard of six acres was heavily laden with choice fruit.

In the wide clover belt around Perry and Morrice there are a number of apiaries, and one apiarist well versed in beekeeping has more than one hun-



Keep the "Luck" in Your Shooting Where It Belongs

AME—especially ducks—is wily, suspicious. It is part of the sport to be patient and cautious. Finding the game is one of the uncertainties which make shooting a pleasure.

This is what some hunters call luck—where the novice enjoys the same opportunities as the more experienced shooter.

There is another kind of uncertainty which used to be called luck, but which is no longer known among hunters who have learned better.

Ordinary shells will frequently swell or broom out when wet. They sometimes refuse to work through your gun at all.

Remington for Shooting Right

In such a case it's a form of "bad luck" which is unnecessary, because Remington development has provided WETPROOF shells that are sure fire even when wet.

WETPROOF shells cost no more than ordinary shells—made in the popular "Nitro Club" and "Arrow" (smokeless powder) and "New Club" (black powder) brands. All Remington shells are WETPROOF.

chances—luck. Ask for Remington UMC WETPROOF shells in your favorite load and keep the luck of hunting where it belongs with the game.

The Remington dealers' stores in your town are known as "Sportsmen's Headquarters"—at the sign of the Red Ball. Each is one of 88,000 local representatives with authority and service as broad as the largest makers of firearms and ammunition-Asking for a box of "12 gauge No. 4" is taking unnecessary Remington.

Send for Wetproof Folder

REMINGTON ARMS COMPANY, Inc. Largest Manufacturers of Firearms and Ammunition in the World

Woolworth Building, New York City

Successor to The Remington Arms Union Metallic Cartridge Company, Inc.

TERESTER STEEN STE





185 Times-No difference!

This test was made by Miss Betsy Lane Shepherd in 185 cities and towns of the United States and Canada. The 185 audiences aggregated more than a hundred thousand people. Each audience found itself absolutely unable to tell when Miss Shepherd was singing—and when the New Edison was Re-Creating her voice—except by watching her lips.

This is a most phenomenal achievement. Merely one such comparison makes an extremely diffi-

cult test for a phonograph. Indeed, it is so difficult that no other phonograph or talking machine manufacturer dares to make this comparison.

Mr. Edison subjected the New Edison to more than 4000 such tests with over 50 different artists, before more than four million people, because he wanted to prove that perfect Realism was an everyday performance with the New Edison.

What does this mean to you?

Test the power of this wonderful Realism on yourself!

What kind of vocal or instrumental music "gets" you most quickly?

Is it a sweet voiced soprano?—a soul stirring violin?—a jazzy orchestra?—or what?

If you'll tell your Edison dealer, he'll give you a wonderfully fascinating test—the "Personal Favorites" Realism Test. It will tell you something you've long wanted to know—whether the New Edison brings you those particular beauties and makes you feel all those fine emotions which you experience in listening to your favorite living artists.

THIS test is really a test of the power of the New Edison's Realism. Do you know what Realism is—what it does?

A most interesting demonstration of what the New Edison's Realism can do, took place at Dallas, Texas, on April 26th, 1920, where Miss Shepherd gave her 185th test.

Miss Shepherd, who is a famous concert soprano, stood beside the New Edison and started to sing:

"In the gloaming, oh! my darling-"

With a soft, rounded leveliness, the beloved melody filled the auditorium. Pulsing through its theme was the soul of a great artist. Its message, warm with understanding, old yet ever new, reached the hearts of the hushed listeners and sped their imaginations back to

cherished memories.

It was the magic of music!

Suddenly Miss Shepherd's lips

went absolutely still. But her lovely voice went smoothly on—

"-it was best to leave you thus-"

The audience was puzzled. Then it awoke. Miss Shepherd's voice was now coming from the New Edison—and no one had been able to tell the difference between the living voice and the Re-Created voice.

The power that enabled the New Edison completely to baffle this audience was its Realism.

Edison's Realism had put into the RE-CREATED music all the magic of the living voice with which Miss Shepherd charmed her listeners.

You love fine music. You want your home to enjoy it! You want your children to get its cultural benefits. But where you live may not be convenient to the opera and concert centres.

Mr. Edison has long appreciated your desire—your situation. Other music lovers were in the same position. So Mr. Edison concentrated his life's greatest effort upon perfecting the phonograph. He spent seven years and three million dollars in research work.

What he strove for, was recently told by Mr. Edison himself:

"The ordinary phonograph, as we have known it, falls somewhat short of conferring upon its owner all of the pleasure and benefits that can be derived from good music. The greatest shortcoming of the phonograph was its lack of Realism, and it is this shortcoming which I have sought to overcome. The result is a degree of Realism in our present phonograph which is baffling to even the most expert ears.

"I have been quoted as desiring to see a phonograph in every home. What I actually want to see in every American home is music, so realistic and so perfect in its rendition as to be an unending source of benefit and pleasure."

Now you see what the New Edison's Realism is, and what it does. You're pretty certain that this Realism can bring the magic of music into your home. But Mr. Edison wants you to assure yourself on this point. He wants you to test the power of that Realism on yourself.

Watch for the advertisements of your local Edison dealer in your newspaper. See when he is ready to give the "Personal Favorites" Realism Test. Take the whole family along when you go to hear it.

If you prefer, write us direct and we'll send you a special ticket, addressed to

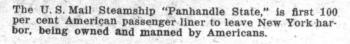
your nearest Edison dealer. This will entitle you to have a private test.

THOMAS A. EDISON, Inc. Orange, N. J.

WORLD EVENTS IN PICTURES-



Jack Baker, son of the secretary of war, fits up bicycle with a wireless receiver apparatus.







Crowds throng Wall street days after explosion.



Babe Ruth takes time between base hits to play base notes on a base horn.



Heavy guard is placed following the warning that U. S. Customs House at New York would be blown up.



This black velour coat is set off with collar of squirrel and narrow tasselled belt.





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NEW EDISON
"The Phonograph with a Soul"

THOMAS A. EDISON, Inc. Orange, N. J.

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Crowds throng Wall street days after explosion.

Heavy guard is placed following the warning that U. S. Customs House at New York would be blown up.

This black velour coat is ret off with collar of squirrel and narrow tasselled belt.



Send No Money in Advance

If you were to taste our teas and coffees we would not need to advertise to you. Week after week and month after month more than 9,000 steady customers continue to buy from us, which shows that our products give complete satisfaction.

You might pay from 15 to 50% more and still not obtain a better quality.

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THE VALLEY OF THE GIANTS

A ROMANCE OF THE REDWOODS

By Peter B. Kyne

A denial, under the present circum- ceiling. stances, would be tantamount to an adto "come clean."

"The city council has already granted the N. C. O. a temporary franchise,"

Pennington sprang furiously to his feet. "Dammit," he snarled, "why did much did Henry get out of it?" Penyou do that without consulting me?"

"Didn't know you were remotely interested." Now that the ice was brok- tainer, and not a cent more," Pounden, Poundstone felt relieved and was stone protested virtuously-and truthprepared to defend his act vigorously. fully. 'And we did not commit ourselves ir-N. C. O. cannot even get started."

sion could readily be arranged."

"Any witnesses?"

you would have serious objection to franchise when they apply for it?" having your tracks cut by a jump-cross- Poundstone rose with great dignity. no reason in life except to justify him- you insult me." self and inculcate in Pennington an im- "Sit down. You've been insulted

There was no dodging that question, nonchalantly and blew smoke at the

"You oily rascal!" Pennington solilomission; Poundstone could not guess quized. "You're a smarter man than just how much the Colonel really knew I thought. You're trying to play both and it would not do to lie to him, since ends against the middle." He recalled eventually the lie must be discovered. the report of his private detectives and Caught between the horns of a dilem- the incident of Ogilvy's visit to young ma, Poundstone only knew that Ogilvy Henry Poundstone's office with a small could never be to him such a powerful leather bag; he was more than ever enemy as Colonel Seth Pennington; so, convinced that this bag had contained after the fashion of his kind, he chose the bribe, in gold coin, which had been the lesser of two evils. He resolved productive of that temporary franchise and the verbal understanding for its possible extension.

> "Then Ogilvy did business with you through your son Henry," he challenged. Poundstone stated violently. "How nington continued brutally.

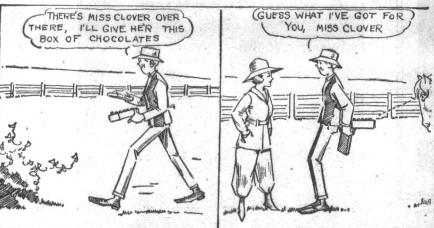
"Two hundred and fifty dollars re-

"You're not so good a business man revocably," he continued. "The tem- as I gave you credit for being," the porary franchise will expire in twenty- Colonel retorted mirthfully. "Two huneight days-and in that short time the dred and fifty dollars! Oh, Lord! Poundstone, you're funny. Upon my "Have you any understanding as to word, you're a scream." And the Colan extension of that temporary fran- onel gave himself up to a sincerely chise, in case the N. C. O. desires it?" hearty laugh. "You call it a retainer," "Well, yes-not in writing, however. he continued presently, "but a grand I gave Ogilvy to understand that if he jury might call it something else. How was not ready in thirty days, an exten- ever," he went on after a slight pause "you're not in politics for your health; so let's get down to brass tacks. How "I am not such a fool, sir," Pound- much do you want to deny the N. C. O. stone declared with asperity. "I had a not only an extension of that tempornotion-I might as well admit it-that ary franchise but also a permanent

ing at B and Water streets.' And for "Colonel Pennington, sir," he said,

pression that the latter was dealing that way before now. Shall we say with a crafty and far-seeing mayor, one thousand dollars per each for your Poundstone smiled boldly and know-three good councilmen and true, and ingly. "I repeat," he said, "that I did for yourself that sedan of my niece's? not put it in writing." He leaned back It's a good car. Last year's model, but

AL ACRES-Seemingly Al Has Too Many Friends. -By Frank R. Leet







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only run about four thousand miles, and in tiptop condition. It's always had the best of care, and I imagine it will please Mrs. P. immensely and grant you surcease from sorrow. Of course, I will not give it to you. I'll sell it to you-five hundred down upon the signing of the agreement, and in lieu of the cash, I will take over the jitney Mrs. Poundstone finds so distasteful. Then I will employ your son Henry as the attorney for the Laguna Grande Lumber Company and give him a retainer of twenty-five hundred dollars for one year. I will leave it to you to get this twenty-five hundred dollars from Henry and pay my niece cash for the car. Doesn't that strike you as a perfectly safe and sane proposition?"

Had a vista of paradise opened up before Mr. Poundstone, he could not have been more thrilled. He had been absolutely honest in his plea to Mrs. Poundstone that he could not afford a thirty two hundred and fifty-dollar sedan, much as he longed to oblige her and gain a greatly to be desired peace. And now the price was dangling before his eyes, so to speak. At any rate it was parked in the porte-cochere not fifty feet distant!

For the space of a minute the mayor weighed his son's future as a corporation attorney against his own future as mayor of Sequoia—and Henry lost.

"It might be arranged Colonel," he murmured in a low voice—the voice of shame.

"It is already arranged," the Colonel replied cheerfully. "Leave your jit at the front gate and drive home in Shirley's car. I'll arrange matters with her." He laughed shortly. "It means of course, that I'll have to telegraph to San Francisco tomorrow and buy her a later model. Thank goodness, she has a birthday tomorrow! Have a fresh cigar, mayor."

Riding home that night in Shirley Sumner's car Mrs. Poundstone leaned suddenly toward her husband, threw a fat arm around his neck and kissed him. "Oh, Henry, you darling!" she purred. "What did I tell you? If a person only wishes hard enough—"

"Oh, go to the devil!" he roared angrily. "You've nagged me into it. Shut up and take your arm away. Do you want me to wreck the car before we've had it an hour?"

As for Colonel Pennington, he had little difficulty in explaining the deal to Shirley, who was sleepy and not at all interested. The Poundstones had bored her to extinction, and upon her uncle's assurance that she would have a new car within a week, she thanked him and for the first time retired without offering her cheek for his goodnight kiss. Shortly thereafter the Colonel sought his own virtuous couch and prepared to surrender himself to the first good sleep in three weeks. He laid the flattering unction to his soul that Bryce Cardigan had dealt him a poor hand from a marked deck and he had played it exceedingly well. "Lucky I blocked the young beggar from getting those rails out of the Laurel Creek spur," he mused, "or he'd have had his jump-crossing in overnight-and then where the devil would I have been? Up Salt Creek without a paddle-and all the courts in Christendom would avail me nothing."

He was dozing off, when a sound smote upon his ears. Instantly he was wide awake, listening intently, his head cocked on one side. The sound grew louder; evidently it was approaching Sequoia—and with a bound the Colonel sat up in bed, trembling in every limb.

Suddenly, out of the deep, rumbling diapason he heard a sharp click—then another and another. He counted them —six in all.

"A locomotive and two flat-cars!" he murmured. "And they just passed over the switch leading from the main-line tracks out to my log-dump. That means,

(Continued on page 453).



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The Courage of the Franconians

7ITHIN nine years after the organization of Saginaw county, a little group of pious men and women of the Fatherland began to direct their attention to the land of great forests—the American wilderness-and the name of Michigan became a familiar sound to them. They naw county, to which we proudly point liturgy. as a pearl in the Michigan diadem.

fearing people, who worked diligently glorious Sunday morning." and unceasingly six days in the week and went to church on Sunday.

sturdy people to migrate from their forgetful care of the sick during the mosquitoes, while the intense heat of became extinct at this place, because comfortable homes in the Fatherland smallpox scourge at sea had won his July and August, and the chills and of the ravages of disease among the to the western wilderness, make a heart. The other members of the party ague were enough to dishearten them, savages, and the few that were left strong appeal to our imagination. As were: Martin Hospel and wife, Lor- but they held on and called their set- soon departed for other places. narrated by Rev. Thomas M. Chalmers, enz Loesel and wife, John K. Weber tlement Frankenmuth—the courage of saintly pastor, however, did not relinfrom the wilds of America. It was a Pickelmann and wife, John L. Bern- Hardships and Privations Suffered. other missions, one seventy miles cry of an immigration pastor to his thal and John Bierlein. brethren of the Fatherland. He told them of the religious destitution of eling by canal and lake, arrived at De- of the commodities and conveniences from no hardship. Through rain and their countrymen scattered as sheep troit. From there they took passage that are now looked upon as necessi- snow, by perils of land and water, without shepherds. The appeal took on the little sailing vessel, Nelson ties of life. The open fireplace with shaking with the ague, he pursued the mighty hold on the heart of a pastor Smith, Captain Munson commanding, its hooks and pots, was the only means red man with the gospel of the lowly in Neuendettelsau. His name was Jo- for the far distant settlement on the of furnishing warmth to the cabin and Nazarene. He slept with them in the hann Wilhelm Loehe.

Loehe's Vision.

young men, farmers and mechanics, ing and strange language. from Rossnthal and Almuhlthal, offered themselves for the sacred mission.

By James C. Mills

All this has been achieved without they boarded the sailing vessel Caro- acres were reserved for church and taught in the Fatherland. As the conthe facilities of railroads or shipping; lina, and in a few hours the little col- missionary purposes. without tourist travel which spills ony was lost to view of their friends To start a colony in that wilderness building of a regular church was bemining; without booms or glaring ad- sel encountered six heavy storms; was timber, thick and almost impenetrable, dimensions of this log church, which vertisements, and without boosting driven by the wind at night into col- where the wild deer roamed and the was the second house of worship erectfrom the outside world. The town grew lision with another vessel; in which savages hunted the bear and wolver- ed in Saginaw Valley, were twenty-six in strength and prosperity; grew in fa- smallpox broke out on board, carrying ine. The great oaks and elms spread by forty-two feet. vor with God and man; grew out of one of the children into the deep, and their branches over a thick underits own soil under the pluck and indus- threatening the life of their pastor, the growth of brush and brambles, while mission work, and gathered fifteen Intry of those hardy, honest and God- colony landed at Castle Garden on a the towering pines rose like sentinels dian children from the camps of the

Rev. August Craemer, Pastor.

The origin of this community and pastor, Rev. August Craemer, was wed-sent shudders over young and old alike. in the mission school, which was his the motives which prompted these ded to Dorothea Benthien, whose self. The great pests were the myriads of home. But the Indian mission soon "a cry of need came over the water and wife, John List and wife, John G. the Franconians.

"When once Loehe's vision was turn- winds and storm, and after waiting in main street was only an Indian trail as the little colony was to live the life ed toward America he was seized with vain three days for a favorable breeze, through the forest, where no wagon of Christ in the eyes of the heathen. sympathy, not only for his pastorless the men, it is related, resolutely took could be drawn. They were not expe- This they did; but it was all of little kinsmen, but for the Indian-the un-lines and waded along the marshy rienced in the rough life of the forest, avail. The colony remained and beloved, untaught heathen, sitting silent shores, pulling the vessel to a landing and suffered from exposure and illness, came a prosperous community, but the and lonely in the shades of Death. He place at Saginaw City. From this place and often for want of proper food. A red man moved toward the setting sun, forbade himself rest until he had sent a road had been cut through the dense trip to Saginaw City took several days where he still exists, silent and a colony of Christian families to pene- woods to Bridgeport and Flint. In the by canoe on the Cass river, and what lonely." trate the wilderness, to settle among primitive settlement on the Saginaw provisions they were able to buy had the redmen, to preach and live the life the Bavarians excited great curiosity to be brought up the river by the same ers were overheard and a group of eers, on account of their peculiar cloth- the road at Bridgeport.

They Break Into the Wilderness.

After a short stay at this place the "In the meantime a letter had gone pilgrims wended their way into the alfrom Loehe to young Hattsdadt, pastor most unbroken wilderness, following for themselves, their children and gen-held such wonderful possibilities for of a little church in Monrce, Michigan, the trails and the Cass river, under the asking him what the church was doing guidance of a surveyor who had laid for the Indians and what it was possi- out the lands they were to colonize, ble to do. A cheerful reply followed, and at last camped on the banks of This friendly message decided the lo- the river about a mile west of the presstate of Michigan. In the winter of wanderings were at an end. In this 1844-45 the members of the party were remote place, fourteen miles from Saggathered in Neuendettelsau, and reg- inaw City and twenty from Flint, they ulations were agreed upon for the con- set to work building log cabins in the duct of the colony in its future home little clearing they had made, and in a pastor or their religious duties. Al-

erations to come. They had found the future. what they sought: freedom, political No autocracy, dukes, barons or counts masters in this land of the free.

They Found an Indian Mission. Meanwhile they did not forget their store in the settlement.

most as soon as they were comfortably housed they turned to and helped him build a block-house containing three rooms. The largest room was used as a place of meeting for Sunday services, another was the pastor's study, and the third was a living-room and kitchbegan to contribute their quota to the in the wilderness. A course of relig- short time were snugly housed and time for their first Christmas day seren combined, and was completed in settlement of the state as early as ious meetings was held, the members had some patches of ground ready for vice. On New Year's Day, 1846, a bell 1845; and can justly claim a share of of the colony being grounded in the sowing in the spring. The lands pur- was hung in a tree in front of the pioneer honors. They made the town- evangelical Lutheran doctrines, and chased by the colonists from the gov- church, and the little colony rejoiced ship of Frankenmuth a star of Sagi- drilled in the rhythmic psalm and ernment, at a price of \$2.50 per acre, exceedingly when its clear tones were comprised slightly more than a sec-heard calling them together to worship On Sunday morning, April 20, 1845, tion, and of this purchase seventy God in the manner they had been gregation increased in numbers the money on the way; without the pros- on the housetops of Bremen. After at that early day was no holiday affair. gun in 1846, and was completed in time perity incident to manufacturing or seven weeks at sea, in which the ves- The land was covered with first-growth for dedication on Christmas Day. The

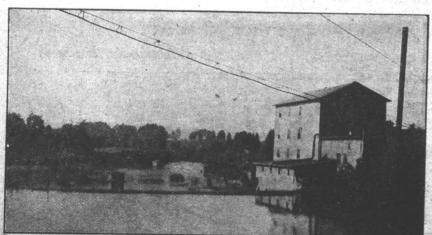
> Rev. Craemer had already begun his above the forest. The hoot of the night Chippewas close by, and the family of owl, the scream of the crane, or the the interpreter, a half-breed by the Before leaving New York the young howl of wolves broke the stillness and name of Jim Grant, all under one roof quish his charge, but planted three thal and John Bierlein. They endured great privations in away. "These missions were visited In August, 1845, this little band, trav-their forest home, for they had none every month. Their pastor shrank Saginaw river. On arriving at the of cooking their food, while pine torch-reek and smoke of their wigwams, he mouth of the river they met adverse es lighted the interior at night. Their ate with them from their filthy kettles,

Increase of the Colony.

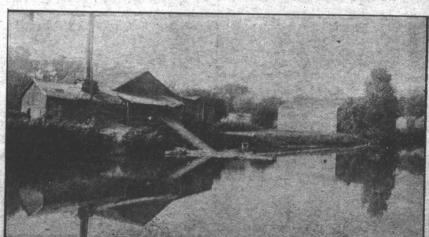
During 1846 the colony and congreof the Master in their midst. His pray- among the French and English pion- means, or carried on their backs from gation were increased by over a hundred emigrants, mostly from the neigh-But with all their troubles, hardships borhood from whence the first pilgrims and privations they held resolutely to had come. They were directed to this their purpose with indomitable cour- place by letters sent back from here, age and determination to make a home telling about this free country which

Among the newcomers were the and religious liberty, and they were Hubinger Brothers, who by their craftwelcome to the land as they found it. manship as millwrights did much for the upbuilding of Frankenmuth. In the cation of the little colony in the infant ent village of Frankenmuth. Their made their lives one of misery and following year John G. Hubinger erectservitude; they could be their own ed a sawmill on the river, using machinery brought in sections from Bavaria; and in 1849 he opened the first

George A. Ranzenberger opened a



Roller Mill Now Occupies Site of First Grist Mill in Frankenmuth.



The Old Saw Mill Still in Operation Supplying the Farmer's Needs.

store near the church in the same year. He owned the first horse brought into the colony, but on account of the want of roads the animal was almost useless. Mr. Ranzenberger was the first postmaster of the village.

On July 30, 1846, occurred the birth of John Pickelman, the first white child born in the settlement; and on August 28 following, the eight-days-old child of Mr. and Mrs. Lorenz Loesel died.

In 1847 another colony of settlers came in, but part of them settled in what is now Frankentrost and Frankenlust. The former colony cleared an opening in the dense forest, and by their industry were so independent that they lived for ten years without a road to the outside settlements.

Other Able Pastors.

The enlarged colony suffered the loss, in November, 1850, of their beloved councilor, friend and pastor, Rev. August Craemer, who was called to a larger field of usefulness as director of the Theological Seminary at Fort Wayne, Indiana. He was followed by Rev. C. A. Roebbelen, under whom the second church edifice was erected. It was a frame building forty by seventytwo feet in size and twenty-four feet high inside. It was dedicated with the usual ceremonies on September 29, 1852.* From the old log church, which afterward was used as a school with forty-seven pupils, were removed the beautiful decorations brought from the old country, including a valuable oil painting representing Christ on the Cross, and which now adorns the state ly St. Lorenz church of this congregation. At that time the church membership was three hundred and forty-five persons.

Rev. Roebbelen was succeeded by Rev. J. A. Huegle; and then began the long pastorate of Rev. Ottomar Fuerbringer, which covered a period of thirty-four years. During this pastorate the present brick church was built and dedicated in 1880. It is one of the largest country churches in the state, being one hundred and twenty-six by sixty-three feet in dimensions, and its spire rises to a height of one hundred and sixty-eight feet and is visible for miles around. This stately church has a seating capacity of one thousand.

Upon the death of the venerable pastor in 1892, Rev. E. A. Mayer took charge of the church; and in 1900 Rev. A. Voss was called as assistant pastor

Strong Religious Spirit of People.

Three score years and ten and fivea span of life-have passed since the sturdy pioneers of Frankenmuth cleared away the trees for the first blockhouse, and the ring of their axes proclaimed the beginning of a new civilization in the wilderness. The little colony was multiplied many fold and meanwhile the forests have disappeared. They have emptied their acres of lumber into the river, while in their place are flowing fields of grain and corn, root crops and vegetables as far as the eye can reach. In a visit to Frankenmuth you ride on good gravel roads beside well-kept fences, and see grist mills, saw mills and cheese factories, and frequent herds of sleek

But the strongest impression is made by the robust, sane religious life of the nity, which is devoid of tificial cleavage as is often witnessed in rural districts between the religious life on the one hand and the social or political life on the other. Instead, a happy, industrious, religious spirit constitutes the entire life of the place.

"What is your village population?" you ask an intelligent, plain looking man.

"About five hundred," he replies.

"How many of them are members of the church?"

"About five hundred," he says, after a pause of blank surprise.

Upon further inquiry you could not (Continued on page 460).



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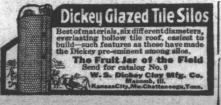


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at the World's Original and Greatest School and become independent with no capital invested. Every branch of the business taught. Write today for free catalog. JONES NATL SCHOOL OF AUGTIONEERING 28 N. Sacramento Blvd., Chic ago, Ill. Carey M. Jones. FRES.

Wanted: Married man as foreman on a large farm-none but first class man need apply. Re-ferences required. Call Citz. Phone 198 bet cen 6 and 10 P. M. Frank Burnham. Bellevue, Michigan

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

WANTED Reliable agents, who will work and tell the truth. Write The French Nursery, Clyde, Ohio, Established 1863.

BUY FENCE POSTS direct from for-ered your station. M. M. care of Michigan Farmer Mention The Michigan Farmer When Writing Adveltsers

Great Majestic Cheers from the Side Lines Our Weekly Sermon—By N. A. McCune

The Range with a Reputation

Delightful, consistent baking results make users of great Majestic ranges en-thusiastic.

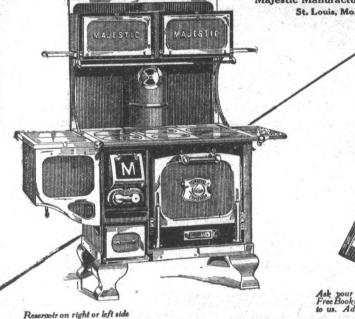
These ranges have long been renowned for their fuel-saving as well as their sure-baking qualities. Heat can be ac-curately controlled and utilized with utmost economy.

Moreover, Great Majestic ranges are easy to keep bright and sanitary.

All surfaces are perfectly smooth. The beauty of the burnished blue cooking tops is ever-lasting—an occasional rub-bing-over with paraffine is all the care needed.

Great Majestic ranges are made in many regular and combination styles with or without legs. They are sold by lead-ing retailers of ranges in practically every county in forty-two states.

> Majestic Manufacturing Co. St. Louis, Mo.



GOMBAULT'S CAUSTIC BALSAM

The Perfect Liniment For External Use on The Human Body

SERIOUS RESULTS through Blood Poisoning are liable from scratches, cuts or wounds from rusty nails or other metal.

It is astonishing how quickly

Caustic Balsam

relieves STIFFNESS and RHEUMATISM] NEURALGIA STRAINS **SPRAINS LUMBAGO** BACKACHE SORE THROAT CHEST COLD STIFF JOINTS

This Great Remedy

applied at once will prove a preventive; is a perfect antiseptic; soothes while it heals.

What it has done for others--It will do for you

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

embarked again and sailed through like that. At first, all is stern. though the way was long.

N the twelfth chapter of Hebrews "Our eyes fixed upon Jesus as the the Christian way is compared to a pioneer." I like that way of putting and his court. Next above were the teenth. nobles, then the soldiers, and last, at the top were the common folk. To win a race and be recognized by the emperor was the aspiration of every athlete. And, the Bible writer tells us, the believer is like that. He is running a race, and if he hopes to win he must lay aside every superfluous thing-every evil habit, every indulgence, that would tend to hinder his speed and his endurance. And, we are being watch- Who is stronger for bearing a burden ed, too. We are watched by a vaster throng than ever watched the Roman games in the days of old. The countless thousands of the heavenly hosts are watching, with eager, sympathetic interest. It ought to make us speed up to think of some who are looking smile on. There is Stephen, who suffered That, like blooming roses or windup to think of some who are looking the first Christian martyr's death. There is Elijah, who feared the face of no man, and there is David, and there are all the other great souls of the Old Testament. They are all For hearts grow stronger when vanishwatching us. And then think of Paul and John. With what eagerness they

Of softened light and we catch the are watching our successes and what pain our failures must give them. And there are the mighty men of history who entered into their promised rest Then live them over—the joy and Luther and Savanarola and Wesley and all the rest. Does it not make the pulse quicken to think that we are running a race that these giants have run before us?

NOW, you will note that the runners are determined to win They strip themselves of all unnecessary clothing, of everything that might impede them. They do not have to do Be pleased, O Lord, in thy love to this, they want to do it. A runner might run with overcoat, rubber boots and muffler on, if he desires to do so. But he is in earnest. He wants to leave the smallest possible margin of defeat. And that is the spirit that our Leader would have in us. And in this a race, anyone can win, if he will. It is not one man who will receive the pigs?" prize, but all will be honored with success, if they persevere. And all this only have Chesterwhites." is voluntary. Room is left for individ-

N May, 1916, Russian soldiers ar- ual initiative. In a new part of the rived in France. To make the jour-country, one sees houses and barns ney from Russia to France required and stumps. Around the house there traveling a distance which was esti- is a potato patch or a bean patch. But mated at seventeen thousand miles. when the country has become settled, They took ship at Port Dalny and sail- the potato patch has become a lawn. ed down the Yellow Sea, thence into There is a swing for the children, and the East China Sea. Leaving the East a hammock for grandmother. That China Sea they entered the South Chi-means that there is a margin of taste na Sea, which took them to Singapore. and art, above the actual necessities. Resting at Singapore a few days, they And in the Christian economy it is the Straits of Malacca, and entered shalt not" do this and that. Then the Indian Ocean. From the Indian comes Christ, and the moral com-Ocean their course led them into the mands still stand, but to them is added Arabian Sea, through the Gulf of Aden a glorious margin of enthusiasms and into the Red Sea, through the Suez loves. The runner wants to run the Canal, into the Mediterranean, and-race, he does not have to. He wants to Marseilles. The commander of the to lay aside all useless habits, all Russians knew where he was to take forms of little sin that lower his effihis men, and he took them there, ciency, but he is not obliged to. He lays aside "every weight." Some things are weights that are not sins.

race: "Therefore, with all this host it. Jesus was the pioneer in the faith. of witnesses encircling us, we must He was the only one who ran a perfect strip off every handicap, strip off sin race. He is the master athlete of the with its clinging folds, to run our ap- soul. And in looking to Him, we are pointed course steadily, our eyes fixed certain of a leader who can bring us upon Jesus as the pioneer." That is through. And we are always sure of a great picture. It is taken from the the greatest success, as we keep our Roman games, when thousands of peo- eyes on him. When a runner begins ple would gather to witness the feats looking about, wool gathering, he is of runners and other athletes. The taking big chances. Someone else will Romans and Greeks were especially push by him. But the men who have fond of long distance running, and the stamped their generation for good are end of the course was in front of one men who have not forgotten to keep of the great stadiums when thousands their eyes on the great Leader: Knox of people would be gathered. On the in the sixteenth century, Wesley in lowest tier of seats were the emperor the eighteenth, Lincoln in the nine-

LIVING THEM OVER.

BY IDA M. BUDD.

What good comes of living them over, All the wearying, wearing things? Those phantom shapes from the past, that hover

So oft about us on night-black wings. With their thorny thrusts and their cruel stings?

Twice as heavy, or twice as far As need requires? Lay it down. A

guerdon Is beckening you from Hope's beam-

But, oh! the joy of living them over— The friendly word and the kindly

blown clover, Cheer with their fragrance the weary mile,

And warm and strengthen our hearts the while.

ed, pleasure

measures Of the old-time melodies, sweet and

gladness Of all that has made the past life bright.

Let their memories banish the care and sadness That signal and sigh from a by-gone

night, And sear the soul with their canker-

blight. And as ever the changes of time shall reach us—

joy and blessing; its pain and fret—

teach us How to remember and how to forget.

DO U. C.?

Briggs.—"Yes, in our town we have postoffice, two general stores, and-" Squiggs.-"And how many blind Briggs, (trying to be smart)-"We

Squiggs.—"O. I. C."

THE VALLEY OF THE GIANTS.

(Continued from page 449). the train is going down Water Street to the switch into Cardigan's yard. By George, they've outwitted me!"

With the agility of a boy he sprang into his clothes, raced downstairs, and leaped into Mayor Poundstone's jitney; standing in the darkness at the front

CHAPTER XXX.

HE success of Bryce Cardigan's plan of getting his rails down from Laurel Creek depended entirely upon the whimsy which might seize the crew of the big mogul that hauled the last load of logs out of Cardigan's redwoods on Thursday afternoon. Should the engineer and fireman decide to leave the locomotive at the logging-camp for the night, Bryce's task would be as simple as turning a hose down a squirrel-hole. On the other hand, should they run back to Sequoia with the engine, he and Ogilvy faced the alternative of "borrowing" it from the Laguna Grande Lumber Company's roundhouse; and that operation, in view of the fact that Pennington's night watchman would be certain to hear the engine leaving, offered dif-

Throughout the afternoon, after having sent his orders in writing to the woods-boss, via George Sea Otter (for he dared not trust to the telephone), he waited in his office for a telephonecall from the logging-camp as to what action the engine-crew had taken. He could not work; he could not think. He only knew that all depended upon the success of his coup tonight. Finally, at a quarter of six, Curtis, his woods-boss rang in.

"They're staying here all night, sir," he reported.

"House them as far from the loglanding as possible, and organize a poker-game to keep them busy in case they don't go to bed before eight o'clock," Bryce ordered. "In the meantime, send a man you can trust-Jim Harding, who runs the big bull-donkey, will do-down to the locomotive to keep steam up until I arrive."

He had scarcely hung up when Buck Ogilvy came into the office. "Well?" he queried casually.

"Safe-o, Buck," replied Bryce. "How about your end of the contract?"

"Crowbars, picks, shovels, hack-saws to cut the rails, lanterns to work by, and men to do the work will be cached in your lumber-yard by nine o'clock, waiting for the rails to arrive."

Bryce nodded his approval. "Then I suppose there's nothing to do but get a bite of dinner and proceed to business.

(Continued next week).

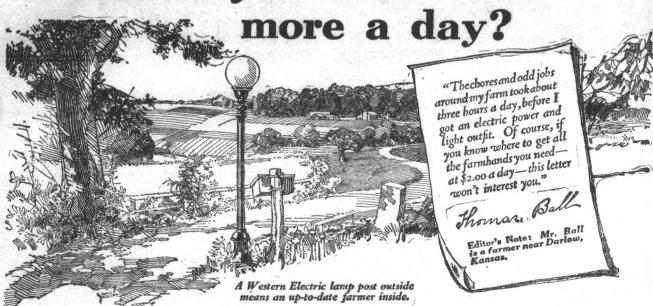
Sunshine Hollow Items Ry Rube Rubicon

Flossie McGraw has taken the picture of Woodrow Wilson out of the frame over the fireplace and substituted a picture of Abraham Lincoln. She says she got tired of apologizing for things the administration does which gets blamed onto Wilson. But nobody kicks about Lincoln and so she has peace when the neighbors come over and see the picture over the fire place. Timothy, her husband, has saved the Wilson picture because he says that his grandchildren can put it up in the parlor and by that time the

kickers will be kicking about something else and treating Wilson fair and decent. At the district school picnic, Martha Peters started laughing with her mouth full of milk. Finally her lips gave away right in front of Parson Goosen. The Parson couldn't swim and was nearly ruined by what happened. Folks will hold an ice cream

orgy at the rural school next week to raise funds for repairing the parson.

Could you use 3 hours



Sarule we farmers don't give much thought to the value of our time. But we suddenly realize that time is worth money, when milking the cows or mixing the feed keeps us from bigger jobs, out in the fields.

Last year I made up my mind that I would look for a farm plant with power enough to do real work. The one I picked was the Western Electric Power and Light Outfit, and please notice that putting the word Power first in the name describes the outfit very well. It is powerful. But I'm not going to praise it up to the skies. I just want to describe this outfit and the

work it is doing for me, and let you judge whether it would suit your needs too.

The battery lasts longer

"It is the 'tapering charge' that

Just connect this

portable motor to

any electric lamp

makestheWestern Electric battery last so long. The charge doesn't strain the batteries, because as they fill, the current gradually slacks up by itself. These batteries are powerful too. They can run my portable

motor for hours and hours on a single charge. Or they can operate ten electric lamps for thirteen and a half hours.

Then there is the generator, built for endurance and hard work. In fact, it will run such a combination as an electric iron, twenty lamps and a one-sixth horsepower motor

With the batteries and the generator working together, you just add the capacity of both. That explains how I can use electricity to milk the cows, separate the cream.

churn the butter, turn the grindstone and pump water.

The powerful engine is a big help

"The Western Electric Outfit

has an extra size engine, with a pulley all ready to be hitched up to a lot of the machinery I used to turn by hand. So taken all in all, you can see how I save at least three hours a day for work in the field. And in these

times when farm-hands are so few and far between, it is mighty important to have this dependable help that my electric power outfit furnishes."





Western Electric Power & Light

Makes the Battery last longer

Western Electric distributors in your neighborhood:

Clayton Gibson, Tekonsha, Mich. Western Electric Products Co., Grand Rapids, Mich. Thompson Battery Co., Kalamazoo, Mich. Lansing Electric Eng. Co., Lansing, Mich.

For territory still available write to Western Electric Co., Chicago



A farmhand you









Lump Jaw Fleming's Actinotors
30 years the standard
Jaw remedy. \$2.60 a
postpaid, Money back
scribes Lump Jaw and 200 other Cattle and Horse dis

Our Boys' and Girls' Department

How to Care for the Farm Dog

HE farm dog has a large place in the heart of the boy. The dog is his companion during work and play. The dog loves the boy and worries when he is away from home. The boy often finds the dog one of his best-loved chums and one of the strong have sensitive nostrils which cannot killed. After the oiling take a comb A dog can be made useful by proper care and training or it can be a nuisance because of its behavior. Every boy wishes to have his dog liked by the other members of the household and he can do a lot to properly train the dog.

The dog's training must begin at an early age. When a dog must be punished, go to the dog and do not call the dog to you and then punish him. If he receives punishment for coming when called he may lose confidence in his master. He should be punished as near as possible to the scene of wrong doing. Then he is more apt to know the cause of the punishment.

Always use the same commands, such as charge, lie down, get up, etc., when teaching the dog its first lesson. This avoids confusion and the animal soon learns the simple acts that are expected of him. When teaching a dog to charge, press down on the back at the time of giving the command. When the act is performed reward the animal with praise. The tone of the voice and the manner of the dog's master its tail, barks and rolls over and shows understood and the dog hangs its tail, skulks away and shows it shame for

Dogs should be given no privileges when grown up. Such a habit is diffiand the habit is easily broken by whip- day and find that it is sufficient. ping and scolding at an early age.

The Farm Boy Can Train and Manage His Pet Dog so it Will be Pleasure and Not a Pest -By R. G. Kirby

stand rough treatment without much or brush and thoroughly comb out all

set and sunrise unless with their care- will destroy fleas. taker and this means that a small kennel is necessary or the dog must spend the night in the house.

A dog that is kept in the house soon allowed to run and romp until cured. becomes house broken and will learn its place. A box in the cellar or wood washed with peroxide of hydrogen if shed will be all the sleeping quarters they are located where the dog canit will need.

soon are understood by the animal. When the family is large and there are own wounds when they can be reach-Praise is appreciated and the dog wags many table scraps. Other dogs are ed. In such cases the trouble can only half fed and are forced to forage safely be left to the dog and healing its appreciation. Censure is also soon for part of their living. Both condi- will rapidly take place. tions are bad and lead to sick dogs. sofa will dislike losing that privilege ous. Three meals a day are about cine will turn a thin dog into a husky where the line was between right for a young pup. Two meals a vigorous specimen in a short time. cult to break. Worrying stock and day are enough for an old dog. Some

The dog has a very sensitive ear. Do may trouble the dog and also the fam- owner knowing of their presence. By the boy's castle, as well as the man's. not allow playmates to whistle, shout ily. Moisten a cloth with kerosene oil sending the dog after hawks that The best, perhaps the only way he can

A small A-shaped kennel is of great paper and burn the paper after the value on the farm. value in keeping a farm dog under con- treatment. All of the fleas can be trol. A long swivelled chain attached combed out by carefully working to the side of the kennel will enable through the hair. Then keep the kenthe dog to take some exercise. At nel free from dust and dirt or the innight it will be under control as is nec- festation will soon be back on the dog. essary under the state dog law. Dogs A thorough spraying of the kennel are not allowed outside between sun- with a commercial coal-tar compound

Distemper causes the loss of many good dogs. It can often be prevented by keeping the dog clean and vigorous Keep the kennel in the shade during and properly fed. Also keep it away the summer and provide a dish of cool from other dogs, especially town dogs water for the dog. Dogs can stand which have had the run of the streets much cold, especially breeds like the A dog that is sick with distemper Collie or Airedale. They cannot stand should be isolated in a kennel or room draughts or dampness and the kennel that will hold as near as possible to must have a dry floor and be some- sixty degrees temperature. The dog what protected from cold raw winds, must receive good nursing and not be

Small cuts and scratches can be not easily lick them. Dogs are won Many dogs are overfed, especially derfully successful in treating their

bones when they are available but do mercial worm medicines which can us

chasing chickens cannot be allowed owners only feed a mature dog once a is as a watch dog. It will give warn- it. There is no finer quality for boy Fleas are an unnecessary pest that frighten them away without the farm always and everywhere. or blow in the dog's ear. It is a form and wipe all over the dog's hair. Where swoop low on a poultry range the dog defend it is to be true to father and of cruelty to the animal. They also the oil touches a flea the pest will be will soon learn to run and bark be- mother. - E.

neath every hawk that appears and the bird under these circumstances will seldom dare to come near enough to the earth to steal a chicken.

Placing the kennel near poultry houses is great protection to the birds. A good dog is also of value in keeping down the rats, weasels, woodof the fleas. Have the dog stand on a chucks and skunks, which have little

> The farm boy can take much pleasure with a pure-bred dog but just about as much with a cross-bred dog if it is of good type and intelligence. Scrub dogs are not always as scrubby as they look. They are sometimes very bright and vigorous and capable of learning many tricks as well as useful acts, such as watching the farm or rounding up stock. Often the dog that is classed as a mongrel cur bears a bad reputation because of bad training.

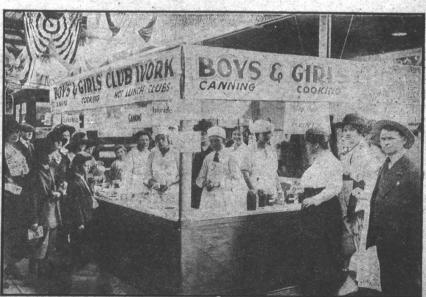
Boys can learn much about patience and self-restraint in their efforts to train an unruly pup. The boy who has thoroughly mastered his dog and taught it useful and interesting tricks has something of which to be proud because everyone does not have the patience to train a dog right. A dog that is properly trained to stay at home and be useful, is a great source of satisfaction to the boy on the farm.

FOR THE RIGHT, EVERY TIME.

ONE boy I know of used to stop at a farmer's house where a very inquisitive woman lived. She used to 'pump" that little fellow dry every Often an unthrifty condition of a time she could. One day she asked Oatmeal, corn meal and skim-milk can dog will be due to intestinal worms. him something about the home affairs. form the basis of the dog's diet. Add Then it pays to buy one of the com "My Mamma doesn't want me to tell," while pups that they cannot have not give the dog much meat. Many ually be procured at any drug store but modestly and firmly, and that was while pups that they cannot have throughout life. The little pup that is dogs get along without much of any and used according to the direction the end of that woman's quizzing the allowed to jump into the chairs and meat and they are healthy and vigor on the bottle. Frequently worm medi boy. She found out that he knew should and should not be told away The great usefulness of the farm dog from home and was bound to stand by ing when intruders appear and often or girl than that of upholding the right

Poultry Demonstration Team and School Lunch Glub at State Fair





Our boys and girls must be proud of the way in which their work has come to the front. And it is natural that the work should be popular for, considering the outlay of energy and capital, no branch of agricultural extension work is teeming with such possibilities and with so great actual results as is theirs.

FARMERS' NEWS INTERESTS.

(Continued from page 436).

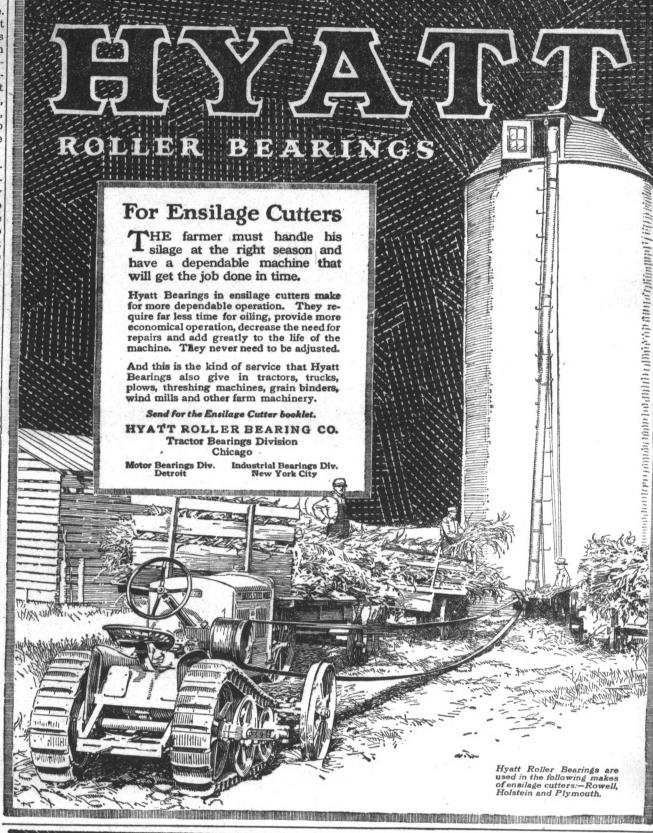
New York district, which is not large, there is a serious car shortage. Not more than fifty per cent of the cars needed to move the crop have been supplied by the railroads. Instant appeal to the interstate commerce commission in Washington was made, but without results. Dr. Eugene A. Porter, commissioner of foods and markets, charges the failure to furnish cars to poor administration by the interstate commerce commission

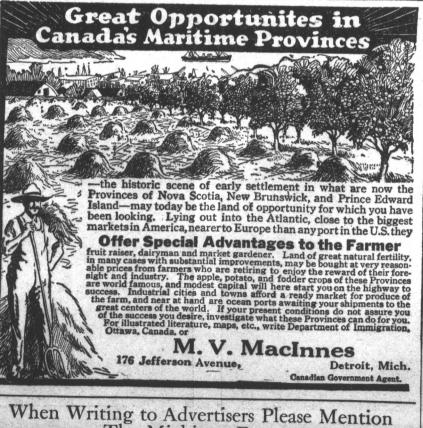
A delegation of Illinois farmers, accompanied by former Assistant Secretary of Agriculture Vrooman, recently came to Washington in an effort to pursuade the interstate commerce commission to compel the railroads to supply cars needed to move the wheat crop. It was shown that the roads are sending only a small portion of the cars required into the wheat districts of the middle west.

The proposition to organize four thousand farm loan associations of the United States into a national organization, with headquarters in Washington, is meeting the strong opposition of the federal farm loan board of the treasury department. The board objects to the National Union of Farm Loan Associations making an annual charge of ten dollars to the farm loan association joining the union. The federal farm loan board has notified farm loan associations throughout the country that no funds of the associations can be used for this purpose. It is also the opinion of the board that as there is no authority in the farm loan act for such an organization, the payment of ten dollars a year from the funds of the local association would be contrary to the land loan act.

W. W. Flannagan, former secretary of the federal farm loan board, and treasurer of the National Union of Farm Loan Associations, answers the treasury officials by saying that "as to 'no authority being disclosed' by the act, for such voluntary alliance as the National Union of Farm Loan Associations, it should not be so expected, nor is it desirable that such special authority should exist. The case is entirely parallel to the organization of the national and state banks into the American Bankers' Association. No authority for such organization is disclosed by the examination of the national bank act, and yet practically all the commercial banks of the country are members of that association. Such special authority in the act is undesirable, for the reason that it would be subject to the construction of precluding all other voluntary organizations except the specific one named.

Chairman L. F. McFadden, of the house committee on banking and currency, has given notice that, "owing to the numerous requests which have been made by live stock associations, farmers' organizations and the farm press for a judicial hearing on bills to be presented by them to the special short-time rural credits committee created by the agricultural appropriation act at the last session of the sixtysixth congress, "any personal rural credits bill which may be presented on re October 25, 1920, to the house committee on banking and currency, will be presented by him to the special committee, and he will use his best efforts with the other members of the special committee to grant such requests for a judicial hearing. He also suggests to the other members of the committee that November 8, 1920, be the last day on which answers to such bills may be filed by the interests which would be adversely affected by the bills. It is probable that Representative McFadden will be chairman of the special committee and that the principles contained in his circular will be adopted. E. E. REYNOLDS.





The Michigan Farmer





UR nation likes a leader who has made his way to prosperity and eminence against odds. And better still, it likes it if his wife has been a real part and parcel of his suc- arts as was thought proper for a nice ings, etc., the while her husband wrote

there lived a merry maid, whose fath- for "show" as she did for interesting Meantime the young wife managed sons of prosperous fathers like him- not welcome at the Kling mansion, yous for young people. self. He educated them in music and Things went on this way for some provided them with other advantages, time, Florence's faith in the young ally into the prosperous Harding Pubwhile their thrifty mother sought to man increasing with the years, and his lishing Company and the daily "Marmake them capable house mistresses like herself. "Dess," as the older sister was nicknamed, dutifully married a "rising business man," but the merry madcap, Florence, fancied an impecunious young printer named Warren Harding, who had come recently to Marion from a little burg, Blooming Grove, in the adjoining county of Morrow, and set up as a job printer with type obtained for nothing by sorting the cases for other printers in town.

Young Harding was the son of a country doctor who eked out his income with a little farm. On this farm the boy Warren hoed corn, bugged potatoes, and milked cows until in 1879. at the age of fourteen years, he went to nearby Iberia where there was a sort of college and high school, from which he graduated in 1882, having helped himself through school by setting type for the village paper, and "working out" for farmers. Two years later found him riding a mule into Marion to sell it. And there he staid. Presently the Harding family moved funny little one-sheet paper called partners for \$150, and set out to develwork for some time; "dollars looked the White House. as big to him then as skyscrapers," so hours a day and often slept in his little and her capability and courage that

some because she did not take so read- vertising copy; she kept accounts and We have not gone into discussion of her father's homes fell to her, the fam-

Woman's Interests

The Next "First Lady" and Her Husband

Subject to the Voters' Choice in November By Harriet Mason

county seat of Marion county, Ohio, erally. Florence did not care so much the press.

girl, as she did to riding her father's editorials, boomed Marion business in-Back in the 1880's, in the thriving horses and managing good times gen-terests, set type, "made up," and ran

er, Amos Kling, was the town's "rich" companions, and it did not take her to keep the house so it was a real business man. He had ambitions for long to get to liking young Harding home to them and to their friends. his daughters, Hadessah and Florence, more than her father liked to see. Con- The Hardings had no children but to marry rising young business men or sequently "that trifling printer" was their home has been a popular rendez-

When "The Pebble" developed fin-



Copyright Edmonston, Washington, D. C. Mrs. Warren G. Harding.



Mrs. James M. Cox.

Marion folks say. He worked eighteen twinkle of the eye hid a resolute will (1900-04). Florence was worrying her mother chants and helped to get up good ad- serving his third consecutive term.

determination to win her becoming re- ion Star," the modest home was imthere, for Warren had gone into busi- lentless. Florence gave music lessons proved, the big front porch that has governor's lady for the "gubernatorial ness by acquiring part interest in a and earned "money of her own," and already become famous was put on, mansion." Warren dug and delved until finally a the "Star" editorials began to be quot-"The Pebble." Soon he bought out his house could be furnished. In it they ed abroad in the state and Marion burn-haired, brown-eyed girl-wife of were married and started that wedded county folks, grateful for the prosper- Governor James M. Cox, prefers op a real paper. It was pretty uphill housekeeping that may land them in ity that they felt their live town paper "Trail's End" to Columbus and the had brought them, sent the editor to gubernatorial mansion. Strangely Florence Kling Harding's merry the state senate for two terms enough, too, for she was brought up a

made her a real partner for her hus- him that it made him lieutenant-gov- mer home in the country. Though she It was at this time that he became band. She worked with him in the ernor (1904-06). And in 1914 the peo- was brought up as a rich man's daughacquainted with the merry maiden, print shop; she gathered notes of ple of Ohio voted to send him to the ter, she has not escaped responsibility, Florence Kling. And about this time goods and wares from the town mer- United States Senate, where he is now for soon after she finished school, her

ily to sewing and other housewifely collected bills; she reported social do- details of Senator Harding's public ser-



to present the fundamentals of the family that the republican party has nominated to head our government for the next four years. They represent a type of persevering ability and real worth that one cannot help but admire.

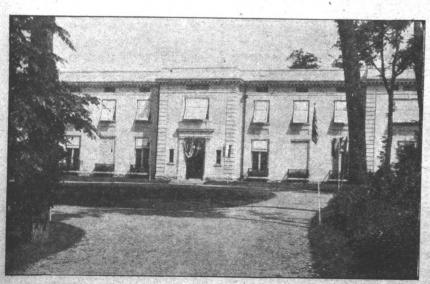
The Other Ohio Family.

Mrs. Margaretta Blair Cox had no such part in her husband's success as did Mrs. Harding, for she is a young wife of Mr. Cox's middle age. It has been his mother and sister who have been his feminine inspiration. When his daughter and son were young things their mother chose to divorce their father, then to the mother and sister came the responsibility of rearing the children, Helen, now Mrs. Mahoney, and "Jimsy," who lives at the Dayton county home, "Trail's End." with the young step-mother and the new little sister, Anne, eight months old, and father, when he has time to get away from "governoring" over at the state capital.

Mr. Cox started "Trail's End" with the expectation of establishing his mother as mistress there, but she did not live to see it finished. Then, after Frank B. Willis had defeated him in the race for a second term as governor of Ohio, he went down to Hot Springs, Va., for a week's rest, and promptly got beaten again, this time in a horseback race with an auburn-haired girl from Chicago, there with her aunt. He had intended to stay only a week, but he stayed a month, and then got to going to Chicago for frequent visits, and the finishing of "Trail's End" was resumed, for a mistress was coming to take charge of it. And when Mr. Cox became governor again there was a

Chicago city girl except as she spent Then the party thought so well of summers at her wealthy father's summother died and the management of

(Continued on page 458,.



"Trail's End," Country Home of Governor Cox Near Dayton, Ohio.



The Harding Home at Marion, Ohio. Cleveland News and International Film Service)

HOUSEWIVES' OCTOBER CALEN-

N October Michigan is at its loveliest. In planning your month, plan time to enjoy the outdoors if only for five minutes each day.

If your neighborhood has no club or social organization, start something. You can get aid by writing the Michigan Community Council, Perkins Bldg., Grand Rapids, Michigan, or by writing the extension department of the Michigan Agricultural College, at East Lansing. Your school commissioner can help you if you ask him.

Visit your school at least once this month. If you have children try to make it every week, but go once.

Evenings are long and indoor occupations in order. Start a family reading circle. The tendency to sensational action and plot is robbing us of our love for the classics. Insist that the children listen while someone reads aloud from Dickens, Scott, Thackeray, Stevenson, even Carlisle and Macauley. Have them take their turn at reading. They may miss much, but they cannot fail to derive benefit from the careful writing.

Start some good book yourself on your job-housekeeping. Or if you have a hobby get a book on that. Learn all there is to know about poultry, for instance, or violet raising, or rug-making, or textiles. Write the state librarian at Lansing for books, if there is no library in your town or county, and you cannot afford to buy. Many counties now have traveling libraries. Perhaps yours is one and you don't know it. Ask some of your officials to find out for you.

October means last days of canning. If you have always dried your pumpkin try cold-pack canning. It saves time when you come to make pies. Cut in pieces convenient to pack in cans, blanch three minutes, cold dip, pack in hot sterilized cans and process two hours, using the usual precautions as to tops and rubbers.

Quinces have possibilities often overlooked by housekeepers. The parings may be used to make a delicious jelly. Cover with water, cook until tender, then strain and proceed as for apple jelly. Quarter the pared fruit, stew until it begins to get soft, in clear water, then add one-fourth as many quarters of sweet apple and boil three minutes. Drain and use the juice to make a thick syrup, three quarts of sugar and two of water, in this case juice, boiled until it will drop from the spoon in drops. Place the quinces and apples in this, boil five minutes, then seal as any preserves.

Citron may be candied for Christmas and Thanksgiving cakes. Pare and cut in cubes, and boil in slightly salted water until it is tender, then cook ten minutes in heavy syrup, remove from syrup and lay on platters, boil the syrup down thick, pour over the citron, taking care to coat every piece, and dry in the oven or sun.

PREPARING WOOL FOR A COM-FORT.

Household Editor.-In reply to a request as to how to prepare wool from the raw fleece for a comfort, first wash the wool and pick all burrs and any other dirt from it, then grease with lard and work well into the wool. With wool cards make a bat of the wool, that is, card it until it has no hard places in it, then instead of rolling it, take from the cards and leave flat. To place in comfort, put bats side by side with a thick edge and thin edge together.-Mrs. O. W. W.

When ink is spilled on the floor or furniture apply salt and ashes alternately. Keep it damp for a night and a day, then wash off and the stain can be removed.-Miss Z. I. D.

THE SIGN OF



What Do You Know **About Flour?**

Do you know what it means to bake with flour that has a perfect uniformity of granulation—that bakes evenly? Have you ever noticed the texture of the flour you use? And its color? Maybe you have not gone into these things. Then try a sack of

The Flour the Best Cooks Use"

Look for the ROWENA trade-mark on the sack

and you will see what we mean. You may not be familiar enough with the manufacture of flour to see these things-but if you are a skilled home baker they will be apparent to you. As the flour is, so will be the bread, the rolls, the biscuits and the pastry.

LILY WHITE is a flour containing the choicest selection of soft and hard wheat grown in America. The soft wheat improves the flavor and color. It insures the baking of a good looking loaf of bread. The flour is correctly balanced to make as good bread as it does biscuits and pastry. There is just enough hard wheat in LILY WHITE to make it the ideal all-round flour.

After being cleaned four times it is scoured three times, then actually washed, so that every bit of dirt is removed from the kernels of wheat. "The proof of the pudding is in the eating?" Try LILY WHITE and be convinced. At your dealer's.

VALLEY CITY MILLING CO.

GRAND RAPIDS, MICHIGAN

"Millers for Sixty Years"

Send to the Factory Yourself

25% TO 40%

No matter where you buy your stove, some one must send the order to the factory. Why not send your order to the factory yourself and save from 25 to 40 per cent? That's exactly what you do

when you get "A-

Kalamazoo-Direct-to-You." Write for the Kalamazoo Catalog and learn what you can save on stoves, ranges, furnaces, cream separators, washing machines, sanitary indoor closets, etc. Our 300,000 satisfied customers say that you can not beat Kalamazoo for quality, quick service and low prices. Send for catalog and save money this winter.

Ask for Catalog No. 113 KALAMAZOO STOVE CO. A KAJAMAZOO

GENUINE aspirin



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

BAYER-TABLETS

SKIDMORE-RIEHLE LAND COMPANY



HOOSIER STOVE CO. 131 State St., Marion, Ind.

Married Man Wanted for farm work.

and dutable; worst.
Price \$5.00 cach. Same size IMP 1111.
Price \$5.00 cach. Same size IMP 1111.
D. S. Meney refunded if not satisfactory. Send D. O. order.
Plymouth Bldg., Cleveland, Ohios.

ity for the man that is industrious and conscientions. For particulars write to BROCKWATER FARM, Ann Arbor, Mich., J. B. Andrews, Mgr.

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big FREE 280-page Cata-log of Fall and Winter

Bargains. Lowest prices in America

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CHICAGO, ILL.

Rush a Postal for Phillipsborn's Money Saving Catalog-Just Out!

NOTICE! Every article in Phillpsborn's Big 280-page Catalog represents the lowest possible price at which merchandise of the same quality can be bought. Send postal today — to delay means the loss of Sensational Savings on wearing apparel for every member of the family. REMEMBER-Phillipsborn's Prepay All Delivery Charges and our prices are the Lowest Prices in the U. S. A.

The Next "First Lady"

(Continued from page 456).

brothers and herself, the only daugh- does truck garden stuff, and the lawns later added an uncle and a boy cousin have been largely laid out under her when the aunt died. Therefore she did supervision. not come to "Trail's End" without con- Mrs. Cox's chief interest is in her up that day.

ily consisting of her father, three Mrs. Cox likes flowers as well as she ter in the family. To this family was and flower, gardens at "Trail's End"

siderable experience in managing so home and family. Little Anne, whose large an establishment. Dayton peo- clothes were all made by the young ple tell of seeing her sometimes driv- mother and Mr. Cox's sister, receives ing a little yellow truck into town to personal care by her mother, although do her own marketing. She is an ex- a trusty nurse maid is there to leave pert auto driver as well as horseback her with on occasion. Mrs. Cox seems rider. And sometimes when the cook to care little for society, and the state has left, she goes into the kitchen and capital fashionable set has been rather prepares the meals. One day recently disappointed about this. But the rea caller is reported to have found her sponsibility of two big houses, enterlamenting because a storm of the pre-taining for the governor's political convious night had knocked off the rasp- venience, and being a real mother to berries which she had intended to put Anne, was plenty big enough job for a young wife, don't you think?

"A Merry Heart"

T seemed to me when the woman it is a power that all too few people told me her reason for marrying the possess. man she decided upon, that her

time, you just blithely leap in.

isn't it?"

To marry a man because he said 'soft nothings," when you had already been married once and knew that life is real and life is earnest in double harness, seemed to me the height of folly. There were other men who would have liked to console that particular widow. They had bank accounts and steady jobs and income property and pleasure cars, while this wight was a better spender than he was an earner, and his only piece of property was mortgaged. But the widow passed over the substantial qualities of her other admirers, and married the man who was always cheerful.

That was five years ago, and I've been watching the outcome of the marriage. Reluctantly I've had to admit that she made the better choice, for the man still keeps cheerful, still supplies her with the compliments her soul craves, and still keeps her happy. They are little better off financially than they were five years ago, he is one of the many who didn't profiteer by the war. They have managed to keep up, but not to get ahead, but as they look at it, getting ahead doesn't As quiet hours of summer evenings

The main thing is that the home atmosphere is always sunny. And after all, isn't that the supreme proof of a The daytime finds thee silent as a successful life? What good is money if it can't buy you happiness and laughniture and automobiles if they just bring lines between your eyes, and add to your cares and anxieties? After all, it isn't the things which we nossess that make us happy or unhappy. It is the spirit in which we approach life. lee,
And the woman who married for good 'Tis then I hear thee chiming with cheer instead of for money showed her good judgment.

I believe it was Johnson who said, Thy song, it is not riotous with glee, "It is worth a thousand pounds a year Nor is it sad as is the moaning dove; to be able to look on the bright side But simple truthfulness, it seems to me And confidence, and happiness and love could have multiplied that thousand by a thousand, and not made it too If thou who art so lowly still can sing, much. The power of being cheerful, And tell the praises of the God on not because we foolishly ignore conditions, but because we refuse to be conquered by conditions, is worth more than all the wealth in the world. And

COLORS: Assorted

patterns, light grounds.
SIZES: 60 inches

long; width at center 30 inches. PRICE

delivered, 47

There are two sorts of cheerfulness, judgment was lame. She was a widow and we often fail to differentiate one of course, or she wouldn't have reafrom another. There is the cheerfulsoned it out-you never do the first ness of young children, who knowing no troubles, are filled with laughter. "He's always cheerful, and he says This sort is shared by some adults who the little pleasant nothings you like either lack the power to see conditions to have folks say to you. You may which do not affect them directly, or know perfectly well they don't mean seeing them, take the attitude that it a word of it, but it smooths things out, is none of their affair, or that it is the and keeps you feeling pleased with will of God, and therefore should not yourself. And that's half the battle, affect their happiness. And there is the better form of cheerfulness, which seeing and knowing the misery in the world, resolutely sets itself against discouragement and keeps cheerful in spite of conditions which cannot be overcome. It is this cheerfulness which we should all cultivate as a protection against the petty irritations of everyday life. It is the only thing which can keep us from growing pessimistic, morbid, introspective, and can save us from falling into a loveless old age.

Little annoyances are bound to come to all of us. No one can count on a life free of the daily grind of little things which vex and annoy. But we can lessen the pin pricks if we take them good naturedly, if we cultivate smiles instead of frowns, laughs, instead of groans, determined to be of good cheer, no matter what comes.

TO A CRICKET.

AGNES ELIZABETH IDE.

Wee little cricket, chirping in the grass, What meanest thou thy intermittent

pass

I hear thee singing in thy simple way.

sphynx, As darting here and there thy tasks

to do, ter? Why have houses and good fur- One moment thou art basking in the

The next thy glistening form is lost to view.

When in the trees the birds have gone to nest, And twilight slowly settles o'er the

the rest. And start again thy evening litany.

high earth and sky and every living

thing, To share thy happiness, then why not I?

October Poultry Hints

ARKET poultry requiring fattening must be fattened in coops or pens where they will receive litexercise. Green food is not of value in a fattening ration. In fact, it will only take up room in their crops which is needed for fat-producing foods. Fowls will increase in weight on a diet of corn meal and sour milk mash. The meal is better than whole

According to Cornell the high-producing hen has a full bright waxy comb and wattles. The face is thin and the beak, eye rings, ear lobes and face are pale. The good hen has a full ear lobe and a bright round eye. The hen that should be culled out of the flock will have small hard dried comb and wattles. The face will be fat and the beak, eye rings, ear lobes and face will be yellow. The ear lobes will be wrinkled and the eyes dull and snaky.

Clean, spray and sun the nests. Then fill them with plenty of clean litter. Half empty nests may result in broken eggs and this often teaches hens the egg-eating habit. Dirty nests will mean dirty eggs and they cannot be washed without destroying the protective film which nature has made to help keep an egg fresh and wholesome.

Hens have scaly legs because of a parasite which works beneath the scales. Sometimes wiping the legs with a rag soaked in kerosene oil will effect a cure. In severe cases the scales can be soaked up with warm water and soap and much of the incrustation removed. Then wipe them with lard and gasoline to kill the pests. When once removed the hens will have little trouble with scaly legs if the houses are clean and dry.

Preserving Eggs.

Never try using last year's waterglass solution for another lot of eggs. Be sure and take your own cans or bottles to the druggist when buying waterglass. It is better to furnish your own receptacle and save money. Earthenware jars are necessary to preserve the eggs in the best condition. The solution is made by using one part waterglass to nine parts of water which has been boiled and cooked. A gallon of waterglass will make enough solution to preserve fifty dozen eggs.

As a little speculation better than oil stock we recommend putting down about fifty dozen eggs now while they are worth around fifty cents per dozen. Sell them about Christmas time when quality eggs are high and scarce. Sell them for exactly what they are-waterglass eggs. And let the quality prove to the customer that they are better than cold storage eggs sold in the store. If the eggs are sold for seventy-five cents, that means \$12.50 profit, less the cost of the solution and the time of putting down and fishing them out of the crocks. That's not much money, but there isn't much easy money in the business of producing food, and every dollar counts.

A hen has a bodily temperature of 1061/2 degrees and she is protected by FREE! a thick coat of warm feathers. When the bird is well fed and living in a still air, her body generates enough Pestal heat to keep her feeling fine and the feathers keep the heat from leaving too rapidly. A hen exposed to the wind soon suffers from the shock caused by the feathers blowing out and exposing the warm skin to cold air. This means that windbreaks are useful on poultry ranges and draughts must not be permitted in poultry houses. Fresh clean cold air is healthful to fowls. Damp unclean air is unhealthful whether warm or cold. It is not the cold air that causes sickness in poultry flocks. The open-front house is necessary because fresh air means healthful poultry and they can stand cold if well fed and protected from draughts.

R. G. KIRBY.



Moulting time is the time that a hen needs assistance. She is weak, rundown and out of sorts generally. It is the off-season in the life of the hen.

Think of the amount of a hen's energy, vitality and red blood that's required to reproduce a thousand feathers! (which is only an average plumage).

A moulting hen needs good health, good appetite and good digestion. That's just what Poultry Pan-a-ce-a does for a moulting hen—gives her appetite and good digestion, so that she'll eat more and digest more.

Dr. Hess Poultry PAN-A-CE-A

Helps your poultry through the moult.—And starts your pullets and moulted hens to laying.

It contains Tonics that produce appetite and good digestion-Tonics that tone up the dormant egg organs-Iron that gives a moulting hen rich, red blood and a red comb: It contains Internal Antiseptics that destroy disease germs that may be lurking in the system.

No disease where Pan-a-ce-a is ied

Pan-a-ce-a helps your poultry to stay at par during the moult. They don't become run-down, pale and thin. That's why a Pan-a-ce-a hen gets back on the egg job quickly instead of sitting around all fall and winter as a bill of expense while regaining her normal vitality.

Always buy Pan-a-ce-a according to the size of your flock. Tell your dealer how many fowls you have. He has a package to suit. Good results guaranteed.

30c, 75c, and \$1.50 packages. 25 lb. pail, \$3.00. 100 lb. drum, \$10.00. Except in the far West and Canada.

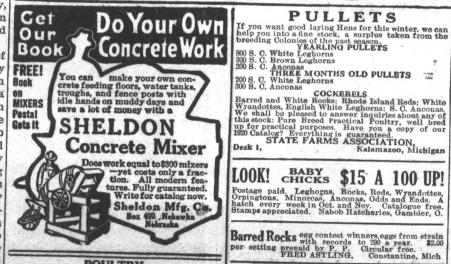
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Dr. Hess Stock Tonic keeps hogs healthy, drives

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POULTRY

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

S. C. White Leghorns. Ferris 264 egg strain. Fine cocks \$4., \$5. Selected yearling hens \$2.,\$2.50, \$3. each. ALVAH F. STEGENGA, Portland, Mich.

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

300 S. C. Anconas

COCKERELS

Barred and White Rooks; Rhode Island Reds; White Wyandottes, English White Leghorns; S. C. Anconas, We shall be pleased to answer inquiries about any of this stock: Pure Breed Practical Poultry, well bred up for practical purposes. Have you a copy of our 1920 Catalog? Everything is guaranteed. this stock: 1 up for practical purposes. Have you a up for practical purposes. Have you a 1920 Catalog? Everything is guaranteed.

STATE FARMS ASSOCIATION,
Kalamazoo, Michigan

LOOK! CHICKS \$15 A 100 UP!

Postage paid. Leghorns, Rocks, Reds, Wyandottes, Orpingtons, Minorcas, Anconas, Odds and Ends, A hatch every week in Oct. and Nov. Catalogue free. Stamps appreciated. Nabob Hatcheries, Gambier, O.

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

Pullets and cockerels. From thorough-bred Baron White Leghorns the type that are bound to make good producers. Raised on free range. Every bird suaranteed and shipped on approval. Send for prices and catalog. A few Barred Rock Pullets. Brummers Poultry Farm. Holland. Mich.

BARRED ROCKS. Park's 200-egg cockers els which will produce fine layers next year. So each. E. G. KIRBY, R. I. East Lansing, Mich

Whittaker's Red Cockerels

Both combs. Special discount on early orders, Write for Price List.
INTERLAKES FARM, Box 39. Lawrence, Mich.

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

Fowler's Buff Rocks. We are now booking or-cockerels left. R. B. FOWLER. Hartford, Mich.

best quality only \$1.75 per 15, \$3.25 per 30 by prepaid parcels post. C. W. Browning, R.2, Portland, Mich.

For Sale High quality S. C. Anconas, 20 yearling hens. 10-early pullets, 1 winning cock, 1 cockerel, \$75.00 takes them all and many of the females are winners. C. C. STERLING, R. 3, Hillsdale, Millsdale, Mills

Single Comb White Leghorns

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

Rhode Island Whites Are the best all purpose Birds being year round layers, Egg and chicks and a few good males. H. H. JUMP, Jackson, Michigan,

8. C. Black Minorca Cockerels, from pen headed by our \$50, 11% to cock bird. These cockerels will be very large with quality. R. W. Mills, Saline, Mich.

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

THREE GREAT DAYS Oct. 19th, 20th, 21st. 225 Choice Reg. Holstein 225

JACKSON, TUESDAY, OCTOBER 19th 70---MICHIGAN'S BEST HOLSTEINS---70

Sales Includes:

7 head in calf to a 36-lb. grandson of May Echo Sylvia.

5 bred to a 33-lb. son of King Ona. 4 bred to a 30-lb son of King Segis Pontiac Konigen.

Cows with records to 32.92. Heifers from dams with records to

34.53. Bulls from 30.72, 31.24 and 32.98

pound dams. 40 cows and heifers in calf to bulls

whose dam have records from 30-45 lbs.

Every animal in sale this comes from a herd that has passed at least one clean test under state and federal supervision.

EAST LANSING, WED., OCT. 20th

75 Choice Registered Holsteins, including 14 daughters of Sunshine Clothilde Pontiac Lad, an excellent sire rich in the blood of Pontiac Korndyke and DeKol 2nd's Butter Boy 3rd, and 8 cows in calf to him. 7 cows in calf to Model Glista King Segis, grandson of King Segis, out of a 35-lb. daughter of a 31-lb. cow.

OWOSSO, THURS., OCTOBER

80 choice cows and heifers, including 10 daughters of Johan Hengerveld Lad and 14 cows in calf to this great sire.

6 daughters of Maplecrest Banostine Application. Cows with records to 31 pounds.

Absolutely Guaranteed Free From Tuberculosis. Sold With 60-90 Day Retest Privilege. Every Consignment Inspected Before Being Accepted.



The Michigan Holstein-Friesian Association H. W. Norton, Jr., Field Secretary Old State Block, Lansing, Michigan

Courage of the Franconians

(Continued from page 451).

Schools.

they measure up well with the stand- the road to Saginaw. ard for country schools. This is evi- In good roads Frankenmuth is a leaddent by the fact that in three consecu- er among the townships of Saginaw tive years one of the pupils of the par- county. Long before the hard road sysochial schools received the prize for tem was adopted about twenty years the best eighth grade examinations in ago, the main roads in Frankenmuth rural schools of Saginaw county. As were the best in the county; and today a result of high efficiency attained, the under the county system are uniformly people of Frankenmuth are very much in good condition. For a stretch of one exercised about the proposed legisla- mile through the village the north and tion to deprive them of their just right south road is a concrete pavement to educate their children along princi- with curbing, and in some places as ples and methods of their choosing.

Lorenz church in various parts of the village and township, township, all under highly educated Other activities are a mutual fire incomfortable houses adjoining the a women's mutual benefit society. schools are furnished free. The school The township of Frankenmuth has enrollment of Frankenmuth township the distinction of being the only townis three hundred and eighty-five.

The Civil Organization.

of logs and rocks, so as to create a wa- Loehe and Craemer. terfall which they utilized as motive Celebrating Their Seventy-fifth Annipower for their saw mill and subsequently a grist mill. In a rew years the village of Frankenmuth.

port, and George Schmidt was elected ed on Sunday morning. supervisor; George A. Ranzenberger, Frankenmuth's first white child born prosperous township today.

Hubingers had erected, other indus- into fertile farms. tries began to develop because there In his quaint, broken English he told

the power was easily available. Exlearn of a family that is not in vital tensive forests of cork pine adjacent connection with the church, which to the Cass, which made its name well raises five to eight thousand dollars a known in the lumber trade, furnished year for its work. The inhabitants of the timber from which practically ali Frankenmuth are worthy of their par- the village and farm buildings were built. In summer the sawmill was run night and day whenever there was a The Lutheran church believes in the good head of water, and many million parochial school system as the very feet of boards were sent to Chicago foundation of its religious life. Since and other markets. On the site of the nearly all the rural population is de-old grist mill there stands today a voted to the church and its principles modern and perfectly equipped roller governing the community, this system mill. An old steam mill a few rods up has practically supplanted the district the stream still cuts a considerable school. The congregation of St. Lor- part of the lumber used by farmers enz has given much attention to edu- and townspeople in new construction. cation and has equipped its schools Another saw and planing mill is situatwith all modern appliances so that ed at the west end of the village on

wide as a city street. This speaks Eight schools are maintained by St. well for the progressive policy of the

and proficient teachers, some of whom surance company, a workingmens' have served faithfully for years. These club, two singing societies, an excelare men with families and for them lent cornet band, a base ball club and

ship in Saginaw county to return to the treasurer its yearly tax roll fully Although the first settlement was paid, without a single delinquent. This made in the vicinity of the spot where has been the practice for a number of St. Lorenz church now points its spire years, and is a matter of pride of the skyward, that place was not destined sturdy and prosperous farmers and vilto be the site of the village of Frank- lagers. It is a convincing proof of the enmuth. One mile further up the river, thrift and communistic spirit of the where the Cass bends in an almost people, and reflects the good business perfect right angle, there were rapids, traits and principles which have govand here the Hubingers made a dam erned the community since the days of

versary.

On August 15-16 the good people of a cluster of houses appeared near the Frankenmuth and St. Lorenz celebratmills, and this place gradually became ed the seventy-fifth anniversary of the founding of their prosperous commu-On January 31, 1854, the territory nity. The church and the spacious now comprising the township of Frank- grounds surrounding it was the scene enmuth was organized out of Bridge- of impressive ceremonies, which open-

clerk; John A. List, treasurer, and the in the settlement, John Pickelmann, first two officers named, and John M. who first saw the light of day under Arnold were the first justices of the the spreading branches of a huge oak peace. These first officers were elect- tree, was present at the festivities, ed on a non-partisan basis, and proved sharing with Phil Gruet the position very faithful to their public duties, and of guest of honor. White haired, but they soon evolved from the wilderness keen of eye and alert of mind, Mr. a system of roads and other improve- Pickelmann joined in the celebration ments that laid the foundation for the with those people whom he had seen come to the little village in the forest, In the vicinity of the dam which the and transform its virgin pine lands



One of the Numerous Flocks to be Found in the Community.

nt 11

be

ROOFING

SHINGLES

something of the trials of the early days. From boyhood he grew to manhood before his father and neighbors had made more than a slight impression on the trackless wilderness which confronted them. "There were trees, trees, trees everywhere," he said. "It was work from morning to night to make a living. The woods were full of wild animals which we saw in day time and heard at night."

Boulders Mark Historic Sites.

Among the quaint, old-fashioned tombstones of those who helped transform a primitive wilderness into a prosperous garden spot, the present generation, with due respect and revcrence for the dead, have placed a great boulder to mark the spot where the handful of devout Christians built the little log school and started the mission among the Indians. Over in the churchyard of St. Lorenz they have placed another boulder, and on it is a bronze tablet bearing the names of those pioneers, that generations to come may read and have in mind those who, by hardship and privations and unceasing labor, made possible a great

NEW MEN ON M. A. C. STAFF.

LMOST thirty new names grace the rolls of the various staff rosters at M. A. C. with the opening of the college term. Of these approximately half a dozen affect the farming interests of the state directly and several more indirectly.

Perhaps the most important change has been the resignation of Miss Mary E. Edmonds, B. S., who as dean of home economics has taken the lead in a number of women's movements in Michigan during the last few years. Her duties have been taken over temporarily by Miss May Person, who returned to the college this fall. Besides acting as temporary dean, Miss Person is assistant professor of domestic

The horticultural department has been much strengthened by the acquisition of two men of note from widely separated sections of the country-Roy E. Marshall formerly of Virginia Agricultural College, who will specialize in pomology, with the rank of associate professor of horticulture, and Newton L. Partridge, from Ames College in Iowa, to be in charge of a new research division with the grade of assistant professor.

Charles E. Cormany has been added to the farm crops department staff as instructor, a step which it is believed will make for greater efficiency by releasing some of the other crops specialists for different duties.

The vacancy in the position of farm management demonstrator caused by the departure last spring of Charles S. Graves, who took over the executive duties at one of the big dairy farms near Detroit, has at last been filled by H. M. Eliot, formerly of Texas Agricul. Effics Lass 238203 sold on May 6th for tural College. Mr. Eliot, a graduate of the University of Wisconsin, has spent arch 3rd. We are offering for sale Edtwo years with the experiment station itor of Wildwood 295059 a full brother at Madison, and six years in Texas. in bood lines to Effies Lass also four He is a Michigan product, however, He is a Michigan product, however, having been born near Olivet, and consequently is even more familiar with pion show and breeding bull Black. Orders Support State of State Michigan problems than with those of Monarch 3rd. other states.

Another addition to the extension personnel is Gifford Patch, now assistant field agent in marketing. The experiment station also has a new helper in Miss Selma Bandemer, who is carrying on chemical research under Professor Patten.

The chemistry department, one of the branches of college work which has an indirect bearing on agriculture in the state, now has four new men on its teaching staff-Raymond L. Baxter, Harold N. Krebs, H. C. Lange, and Wilford C. Lewis.

HENSHAW.

Mule-Hide Comfort and Content—

There's a world of comfort and contentment in the possession of MULE-HIDE covered buildings.

The farmer, with his snug buildings protected by MULE-HIDE shingles or roll roofing, knows that he has made no mistake, that his buildings are safe and sound for years to come.

He bought on the strength of that unusual service record-

"Not a Kick in a Million Feet"

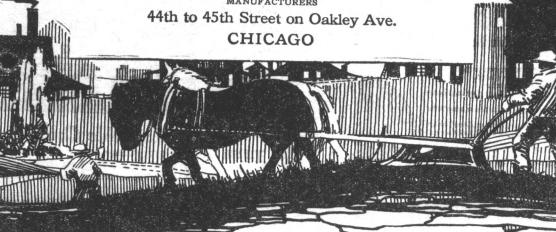
and he has proved, through use, that it is no exaggeration, it is even less than the real truth. He'll never kick for he's satisfied.

When you buy MULE-HIDE, you buy heavier and tougher roofing. It is more wear resisting and satisfying. It meets every requirement.

Ask Your Lumber Dealer

THE LEHON COMPANY

MANUFACTURERS



BREEDERS' DIRECTORY

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

Wildwood Farms Angus

\$7100. She was sired by Black Monmore familiar with pion show and breeding bull Black

> 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 (38948)
EDGARDO OF DALMENY (45501)
by Escort of Harviestoun (38006)
odcote Stock Farm.
Ionia, Mic Ionia, Mich. For Sale Registered Guernsey bulls. May Rose breeding cheap if taken soon Come or write. John Ebels R. 2 Holland, Michigan.

Summing and a second

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

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

E. J. SMALLIDGE, Eau Claire, 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.

For Sale: Guernsey bulls from 3 months to 6 mon the old. Their sire is DOTTIE'S PRINCE No. 44598; his dam has an official yearly record of 647 lbs. butter fat.

L. J. BYERS, Coldwater, Mich.

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

GUERNSEY BULL CALVES whose 19.460.20 milk. 209.05 fat. Their mother's sire's dam made 15.109.10 milk. 778.80 fat. T. V. HICKS. Battle Creek. Mich.

Registered Guernseys a 6 months old bull (100%) satisfaction for \$100. A nice heifer calf \$150.

J. M. WILLIAMS, North Adams, Mich.

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

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



Convert Roughage into Dairy Products with Purebred Holstein Cattle

Cows that convert the roughage of your farm into the best of milk, butter veal and beef are worth more to you than cows that are particular about their food. If you sell your milk for direct consumption, to a cheese factory, or condensary, of course, you won't consider any other breed. When it comes to butter, bear in mind that the separator shows that the Holstein cow still leads. If you have any yours still leads. leads. If you have any young stock you need all that extra skim milk.

Send for Free Illustrated Booklets. They contain valuable information to any Dairyman.

THE HOLSTEIN-FRIESIAN ASSOCIATION 164 Hudson Street Brattleboro Vermont.

Long Distance HOLSTFINS.
Five dams av. 1186 lbs. butter and 2471 lbs. milk in
1 yr. Bulis all sold. State and Federal Supr.
A. FLEMING. Lake, Mich.

NOTICE

The Winwood Herd

on Nov. 1st will move their Herd of Pure Blood Holsteins to their new home, 1½ miles south of Rochester, Mich. and for the next 30 days we will sell what bull calves we have cheap as we will be unable to get our building. 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.) Roscommon, Michigan

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 Ernestha 33.48 lbs. His three nearest dams average over
age 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.

TOP NOTCH"

HOLSTEINS
McPHERSON FARMS COMPANY
has raised many great milk cows:
1 Officially Produced
842 lbs. milk in 7 McPHERSON FARMS COMPANY
has raised many great milk cows:

1 Officially Produced
3394 lbs. milk in 7 days
3394 lbs. milk in 30 days
120 lbs. milk in 10 days
110 lbs. milk in 1 day
110 lbs. milk in 1 day
100 lbs. milk in 1 day
2669 lbs. milk in 1 year
100 lbs. milk in 1 year
100 lbs. milk in 1 year
Others under test are making large milk records
A fine lot of young bulls from 3 umonths to 2 years
old for sale. Get a "milk" bull, and increase milk
Our herds are under U. S. supervision.
McPHERSON FARMS CO., Howell, Mich.

The Traverse Herd

We have what you want in BULL CALVES, the large, 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.

troduction

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

ALL THREE are working to a common purpose—to increase the production of Michigan Dairy herds.

We believe all three should work together.

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

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

individually.

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

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

ten months.

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

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

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.

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,

Herd under state and federal supervision

Cluny Stock Farm

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

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

Send for pedigrees and prices.

R. Bruce McPherson, Howell. Mich.

\$1200 Buys five good young reg Holstein cows. Some breeding. All guar. OK. B. B. Reavey, Akron, Mich.

BARGAIN PRICES on pure bred H o 1 st e i n heifers and young bulls ready for service.

Grand Rapids, Michigan

Dispersion Auction Sale

SATURDAY, OCTOBER 16th 11 O'clock A. M.

44 Registered Holsteins

Having rented my farm, I must close out a herd of Registered Holstein cattle I have been building for 14 years. I started using a 27 pound bull; am now using a 32 pound bull.

There are in the herd:

2-30-1b. Cows 5—Daughters of 30-lb. Cows

1-30-lb. Bull 1-30-lb. Bull Calf 6—Sisters of 30-lb. cows and others headed for 30-lb. honors.

I say this because I have bred, raised and developed them all and have tested only nine head so far with above results.

Have just passed clean, the final test for the Accredited Herd list and will have certificate before the sale.

For transportation to the farm, phone me on arrival. . For catalogue, write me,

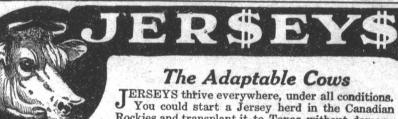
JOHN B. MARTIN Grand Rapids, Mich.

"Altadale Farm" Ada, Mich. Close to Grand Rapids

Auctioneer, Col. L. D. Perry Pedigree Expert, R. A. Backus

1-30-lb. Bull

The West Michigan Holstein-Friesian Association sell 115 high class cattle following Monday at Grand Rapids.



You could start a Jersey herd in the Canadian Rockies and transplant it to Texas without damage to production records.

The Jersey Information Bureau has been established to answer your questions about Jerseys—the unvarying cows which breed true to type. A book on how to increase dairy dollars will be posted in addition. Address—

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

35 Holsteins at Auction 35

On the Farm of C. F. Smith $2\frac{1}{2}$ miles north and $\frac{1}{2}$ mile east of Hotel Elaine, Lapeer, Mich.

Tuesday, October 12, 1920

3 Registered cows, 2 Registered bulls. Maple Crest Korndyke Hengerveld and Pontiac breeding. 30 head high grade cows and heifers. Heifers sired by 27-lb. bull. Most of these individuals are bred to a Son of King Ona, Michigan's \$10,000 bull.

J.M.Cox, H.R.Smith, C.F. Smith, Props.

33.6 bs. butter 608.1 lbs. milk in 7 days aver. of gddams of 3 mo. old bull. Price \$250 Terms. King of Pontiacs, Maplecrest and Pleteries breeding. M. L. McLAVLIN, Redford, Mich.

Sell or Lease I have five registered Holstein Frie-from 8 to 4 months old, "King Ona" strain. Will sell or let out for two years without charge, you to use for breeding and then return to me J. O. MORRIS, "Morris Hills Farms" Mt. Morris,

We Have, on our Ranch at Clare, several fine from \$50.00 up. Will furnish pedigrees. The records back of each individual are good. Address WILLIAM C. CORNWELL, Saginaw Mich.

Holstein Friesian heifer and bull calves, purebred registered and high-grade. Price 320 up. Splendid individuals and breeding. Write us your equirements. Browncroft Farms, McGraw, N. Y. A Good Note accepted in payment of finely bred reg. of the best, and at prices within reach of all. Write, GEO. D. CLARKE. Yassar, Mich.

Holsteins of Quality

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

For Sale ⁴ Holstein heifers, 3 2 yrs, old, 1 3 yrs, old, from heavy producers 450 takes them all. Et S. NASH, R. 3, Howell, Mich.

3 heifers for sale of popular breeding also some nice young bulls.

ALLEN BROS. PAW PAW, MICH.

D. S. Polled Herefords Herd headed by Renner Bullion, S16933, (18242) son of grand champion Bullion 4th.

For Sale—A few good polled and horned cows bred to this great bull. Also three fine bull calves not related to him. Correspondence solicited. Cole & Gardner, Hudson, Mich.

Herefords Double Disturber bull at head of herd, Offer 5 2-yr. olds, bred, 9 yearling and 5 heifer calves, Fairfax breeding, Bulle any age, EARL O. McCARTY, Bad Axe, Mich.

The Wildwood Farm Jersey Cattle, Majesty strain, Herd on State accredited list, R. of M. testing constantly done. Bulls for sale. ALVIN BALDEN, Phone 148-5, Capac, Mich.

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

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

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, one year old this fall.
C. C. LILLIE, Coopersville, Mich.

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

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

SHORTHORNS

BIDWELL STOCK FARM, Tecumseh, Michigan

Richland Shorthorns

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

C. H. PRESCOTT & SONS,

Tawas, City, Mich.

We Now Have

a number of choicely bred scotch females of any age for sale also three bulls from 6 to 18 months old. Visit our herd before buying. Sold 5 calves for \$5400. CARR BROS., & CO., Bad Axe, Mich.

Your Choice of 10 out of 30 head of Reg. the heifers. \$2500 takes the ten and our herd bull. Also have 6 mo. bull out of one of these cows having record of 18380 lbs. milk.

E. A. LIVINGSTON, R. 10, St. Johns, Mich.

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

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

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

Milking Shorthorns of best Bates breeding, bulls 6 to 8 mo, old for sale.

E. H. KURTZ, Mason, Mich.

Shorthorns of Merit Both males for sale. ARTHUR DODDS. Lapeer, Michigan Shorthorn Bulls Eight to ten moths old of Scotch and Scotch Topped breeding. Lawrence P. Otto, Charlotte, Mich.

HORTHORNS—Imp. Mysic Prince in service bred S by J. Durno, sire bred by W m. Duthle. Stock for J. A. BARNUM, Union City, Mich.

For Sale 19 Shorthorn registered good breeding will sell cheap to close out. Apply The JENNINGS FARMS, Bailey, Mich.

Milking Shorthorn 3 mos.heifer calf \$125 bred heifers and serviceable bulls at farmers' prices. Central Mich. Shorthorn Asso. Oscar Skinner Sec. Gowen, Mich. Red Polled cattle for sale bulls from 4 to 18 mos. also cows with calves by side and hetfer's.
G. A. CALHOON, Bronson, 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 calves for sale, from 3 mos. to grand son of Charmer 1919 Interestional Grand Charmer pion. WESTBROOK BROS, 1 Onts. Mich.

HOGS

BERKSHIRES

A select lot of serviceable, young boars sired by Epochals Faithful and from large prolific sows.

THE BUSHROD JOHNSON FARM, Milo, Mich.

Berkshires size with quality is our special-ty. Write your wants to M. G. MOSHER & SONS, Osseo, Mich.

Registered Berkshires, Gilts, and Sows bred for April May and June farrow. A yearling Boar and a few younger.Spring pigs. Chase Stock Farm, Marlette, Mich. Large Berkshires. Rapid gainers. 550 to 600 lbs. 17 Large Berkshires. Rapid gainers. 550 to 600 lbs. 17 and sold by us. W. H. Every, Manchester, Mich.

Fine Registered Berkshire pigs for sale. prolific, large litters.

O. 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.



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.

FARMERS OF MANISTEE ORGAN. IZE CO-OPS.

ONG-CHERISHED hopes of County Agricultural Agent Carl Knopf to have farmers of Manistee county employ business methods in disposing of their products were realized this week when three closely-knit business associations, known as farm bureau locals, were formed through his efforts for the purpose of collective buying and selling.

The first, called the Northern Manistee County Local constitutes the settlements of Arcadia, Pleasanton and Springdale. The central local has its principal shipping points at Norwalk and Chief, and the third, at Onekama, includes territory adjacent to that vil-

These cooperative buying and selling associations have been formulated on a business plan. They are well financed and the members are held under bond to keep their agreements. Acting as collecting agents for various products, the cooperative organizations will at the same time distribute supplies purchased by managers in charge.

Benefits to both grower and consumer are promised to result from the plan which is the first step in a local movement to shorten the gap between the person who produces and the one who uses with better prices to the grower and cheaper food for the buyer.

Money for emergency capital is secured for the locals by depositing collateral security notes, non-interest bearing and payable on demand. They are simply a method by which a member loans \$100 worth of his credit to his local to be used if required.

More than four fundred cooperative farmers' organizations have been found in the state and are uniformly attaining success because at last they are placed on a real business basis. The chief cause, according to Agent Knopf, for failure in such ventures previously has been ascribed to lack of loyalty, but under the new type of organization each member is under a strict agreement and sufficient bond to make it worth while to abide by the terms of the contract.

Farmers in the vicinity of three locals formed are backing the movement heartily and no danger from lack of support is anticipated.

In the past, lack of organization has been one of the American farmer's greatest troubles. Unlike other risk takers, he must lay his plans and start his year's work months before he has any knowledge of what market conditions will be, so that when the crop is harvested he is forced to dispose of it for the best price he can command. Often he is the victim of unprincipaled middlemen who take his product at the bottom of the market and in turn dispose of it to the consumer at a prohibitive figure.

Agricultural leaders believe that organization will do away with these evils, and by stabilizing the industry result in economic benefit to all classes.-R. A.

CLEARS TWENTY-EIGHT SEC TIONS OF LAND.

THE Land Clearing Association of these Marinette County, Wisconsin, undertook at the beginning of 1920 to clear 18,000 acres of land. Following an intensive campaign, the first of its kind in history, the association now. announces that its goal has been attained, the 18,000 and more having been cleared.

On October 12 the members of the organization will tour the county in a celebration of their achievement. One of the features of the day will be the blasting of one hundred and twentyfive stumps at a single shot.

TEXACO TRACTOR OIL * THUBAN COMPOUND

AXLE GREASE

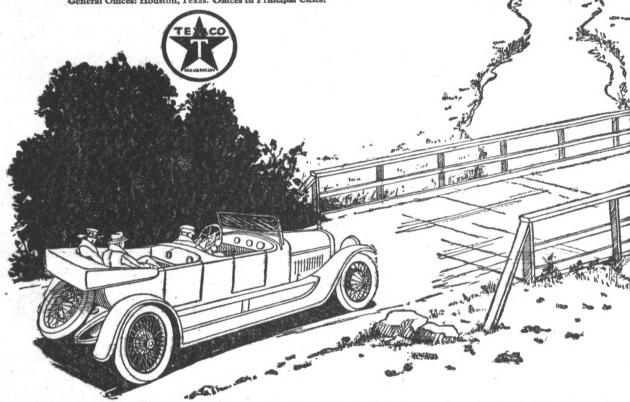
There is nothing that takes the joy out of motoring as quickly as an engine that overheatsand then knocks and sputters. Improper lubrication may result in these symptoms, in which case they indicate that a

hard sticky carbon is interfer-

ing with correct firing. With the proper grade of Texaco Moror On in the crank case and the proper fuel mixture, most of your motor troubles will vanish. Your motor won't balk because Texaco Motor Oil won't form hard destructive carbon.

It is a carefully manufactured, clean oil with splendid lubricating body that effectively holds compression. Texaco Motor OIL is made in four grades,-a range that will adequately meet the needs of any kind of motor. You may know that you are getting Tex-ACO MOTOR OIL by the Red Star and Green Ton every can.

THE TEXAS COMPANY, Petroleum and Its Products General Offices: Houston, Texas. Offices in Principal Cities.



"There is a Texaco Lubricant for Every Purpose"

OCT. 22nd

OCT. 22nd.

Friday Oct. 22nd at 10 o'clock Howell Sales Company of Livingston County; The Oldest Sales Company of Livingston County will hold their

7th ANNUAL SALE OF

80 Head of Reg. Holstein Cattle

at the sale pavilion on the Fair Grounds at Howell, Mich. Catalog Oct. 10th.

Auctioneer J. E. Mack, S. T. Wood in the Box H. well, Michigan Wm. Griffin, Sec. R. 5,

Showed ten head at the Michigan State Fair and won second on under a year boar, second and fourth on under 6 months pig First aged sow, second senior yearling. First and fourth under a year. First, second, third on sow pigs. First on breeders herd, first on exhibitors herd, first on get of sire, first produce of dam. Grand Champion sow, senior champion sow and junior champion sow. All of these winners, except three, were sired by Leonard's Big Bob and his blood will be represented strongly in the sale. Sale date October 28. Write for catalog and information. All hogs on the farm cholera immune.

E. R. LEONARD,

ST. LOUIS, MICH.

C. SOWS FOR SALE I.

Young sows due to farrow in September. Spring boars ready for shipment. Choice individuals of BIG TYPE breeding. I ship C. O. D. pay express and register in buyer's name. J. CARL JEWETT. R. 5, Mason, Michigan.

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

St. Johns, Mich.

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

Duroes: De you want young boars sired by Pathfinder, I have them.
E. D. HEYDENBERK, Wayland, Mich.

OAKWOOD FARM DUROCS

We can furnish you with anything from a weanling pig to a boar of herd heading caliber at reasonable prices. Your inspection and correspondence is solicited. BUSH BROS., Homeo, Mich.

12 Choice Duroc gilts bred to farrow July and Aug-tored to Jacks Cherry Corlo King Number 182:59. Son of the \$10,000.00 champion Jacks Orion King 2nd. All large type, heavy bone gilts, 250 to 300 lbs. THE JENNINGS FAR MS, R. I. Bailey. Mich

Durac Jersey hogs. Cholera Immune. Orion Cherry King and Col. breeding. O.C. K. Boar 1 project O.C. K. Boar 2 project O.C. K. Boar 2 project Orion Cherry Special 2nd. Also some fall gits. HARRY MARTIN AND SON, Spring-Brook Stock Farm, Paw Paw, Mich.

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

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

Duroc Jersey's. Herd headers in bears. Why! Because they are bred right, fed right, grown right and from Grand Champion stock. Write or better come and see. F. J. Drodt, E.J. Monroe, Mich

DUROC JERSEYS Carey U. Edmonds, Hastings, Mich.

The World's Champion

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

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

Poland China Sale Circuit

Wesley Hile, Oct. 26th, Ionia Boone-Hill Co., Oct. 27th, Blanchard

6th, Ionia Leonard & Fisher, Oct. 28th, St. Louis 27th, Blanchard Chas. Wetzel & Sons, Oct. 29th, Ithaca W. Brewbaker & Sons, Oct. 30th. Elsie

These firms, members of Central Michigan Poland China Breeders' Association, will present to the public an offering of Poland China swine, such as has never before been offered in the state. The sales will be held at above named places and will give the farmer an opportunity to fit his exact needs with breeding swine that will produce more pork for the same amount of feed consumed. This is an opportunity of a lifetime, for these firms will sell to the highest bidders sows and boars of the highest individual merit from the best blood lines of the breed.

Col. Harry A. Eckhart of Illinois and Col. Ed. Bowers of Indiana, will do the selling. These men are artists as livestock salesmen,

and it will do the breeders and farmers of our good old state an untold amount of good to be at the sales. It will help them to get acquainted with the breed from an educational standpoint. Michigan is recognized today, as never before as a state that produces as good hogs as any state in the Union. It is now up to the breeders and farmers to produce hogs of more and better quality. Quality always brings the top price on the open market as well as in the sales ring.

Write for catalogs to the above firms or the secretary of the association. Poland China breeders are urged to join the association. Write to the secretary.

Central Michigan Poland China Breeders' Ass'n

E. R. LEONARD, St. Louis, President

C. A. BOONE, Blanchard, Secretary

W. M. KELLY, for the Michigan Farmer

West Michigan's Great Sale of REGISTERED

HOLSTEIN CATTLE

114 head of High Class Cattle at the West Michigan
State Fair Grounds

Grand Rapids, Michigan, on MONDAY, OCT. 18, 1920

A splendid lot of carefully selected cattle to choose from, where the buyer can select anything he wants from a choice heifer calf to an unusually good 32-lb. YOUNG HERD SIRE.

Among our offerings will be about a car load of very desirable yearlings and two-year-old heifers from the noted Traverse City State Hospital Herd. Most of these Traverse City heifers are safe in calf to an \$8,000 Grandson of MAY ECHO SYLVIA.

H. A. Washburn will disperse his entire Government and State Accredited Herd of 25 head of choice cattle, including a 29-lb. cow and her sixmonths-old bull calf.

Monroe & Lewis will also disperse their entire Government and State Accredited herd of 15 good females including two splendid daughters of a 28-lb. cow.

Clarence Bisbee will disperse his little herd of five females, including a 29-lb. daughter of a 34-lb. sire, and a 24-lb. daughter of a 30-lb. cow safe in calf to a 33-lb. bull.

We will also have a car load or two of good fresh milch cows of good type, and a car load of springers due to freshen in November and December.

We will offer a car load or more of good cows due to freshen during the winter or early spring; also about a car load of good yearling heifers, and a car load of choice heifer calves. These yearling heifers and heifer calves are good individuals; most of them are out of high record sires and a number of them are from good A. R.O. dams.

There will be two 29-lb. cows in the sale, a 25-lb. cow, a 24-lb. daughter of a 30-lb. cow, and other good A. R. O. cows that space does not permit us to mention.

The 32-lb. bull calf is sired by a 30-lb. son of King of the Pontiacs and is one of the best young bulls ever offered in a Michigan sale ring. We also have a 31-lb. 2-year-old bull in the sale, two desirable 29-lb. bull calves, a splendid yearling bull out of a 26.88-lb. cow and a 31-lb. sire and several other good bull calves out of high-class sires and good A. R. O. dams.

Nearly all the cattle in the West Michigan Sale at Grand Rapids come from herds that are tuberculin tested regularly under the Government and State Accredited Herd plan, and a number of these herds are "Fully Accredited."

If interested in the cattle offered at the West Michigan Sale, WRITE FOR A SALE CATALOG.

Sale Catalogs will be out October 1st.

W. R. HARPER, Sales Manager, Middleville, Mich.

R AUSTIN BACKUS, Pedigree Expert | COL. D. L. PERRY, Auctioneer

AUCTION SALE

BIG TYPE POLAND CHINAS

50 Head Tuesday Oct. 26 1 P. M.



50 Head Tuesday Oct. 26 1 P. M.

Miss Columbia 760748

Litter Mate to The Yankee and The Pilot

WESLEY HILE, Ionia, Michigan

(In Central Michigan Poland China Circuit)

A special attraction at this sale will be four boars and two gilts from Miss Columbia. These pigs are coming along in nice condition. High backs, good length, deep and wide, strong feet, big bone, smooth coats, neat heads and wide open eyes. This very mating Yankee-Long Boy, were the biggest winners at the 1919 lowa State Fair.

A real attraction will be one boar and four gilts from Gertsdale Jessie, sired by the Clansman, the famous \$50,000 Poland China sire. This is the mating that did so much to make my 1919 sale a success. This year's pigs are even better. They will be nearly four months old at sale time.

Another attraction is an exceptionally good yearling sow by the Yankee, the \$40,000 sire of good ones, and out of a Big Fred dam. These blood lines are right up to the minute, and produce pigs with quality.

One more attraction is the two quality sows, Miss Bob Wonder and her litter mate. Miss Bob Wonder is out of Gertsdale Jessie, the dam of the Clansman litter, and won first in her class of 13 at the 1920 Michigan State Fair, also first at Bay City and again at Grand Rapids. Her litter mate is an even better sow.

Some more attractions will be one litter by Lord Clansman from one of the classiest yearling sows in Michigan, carrying the blood of Gerstdale Jones and Giant Ben. A litter by L's Big Orange and from the litter mate to Miss Bob Wonder is exceptional. Likewise Miss Bob Wonder's litter by Livingston's New Prospect boar are desirable.

Buyers at this sale will get the benefit of over \$1,000 paid in service fees to the best sires of the Poland China breed during the past year.

No culls. No scrubs. Everything double-immuned for cholera and

guaranteed as breeders.

Eight boars represented in spring pigs alone. Sale at farm, one o'clock, October 26. Catalogs will be mailed on application.

WESLEY HILE, IONIA, MICH.
Col. Ed. Bowers, Auctioneer. W. M. Kelly for The Michigan Farmer

DO YOUR NOW



Collie Puppy Sale

for 10 days I will sell pedigreed males 2 months old for \$15.00. Natural healers from trained stock send check in first letter. DB. W. AUSTIN EWALT, Mt. Clemens, Mich., Phone 703.

HOGS



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 amnot already represented by these fine ourly developers—ready for market at the menths old. Write for my plan—"More Money from Hogs." 6. S. BENSAMIN, R. F. D. 10, Portland, Michigan

Big Type Chester Whites. Choice, stretchy spring for Sept. litters, These hogs are big and will fatten at any age. Grand champion blood lines of the breed, Wildwood Prince Jr., Rajah, and Champion X. Choicra immune. Satisfaction guaranteed.

N. L. HILL JR. Mackin aw, Tazewell Co. Ill

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

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

Coral, Mich. Sales Mgr.

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

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

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

FOR SALE Registered Big type Poland row, weighing 225 lbs. for \$50, spring pigs all sold, guarantee satisfaction. DORUS HOVER, Akron, Mich.

O. I. C. Gilts bred for July and Aug. farrow.
Also spring farrowed pigs.
G. P. ANDREWS, Dansville, Mich

O. I. C. Gilts bred for Sept. farrow and spring pigs.
F. C. BURGESS, R. 3, Mason, Mich.

O.I. C's. One last fall boar wgt. 4°5, two last fall gilts, bred lots of spring pigs and this fall pigs either sex, good growthy stock % mile west of DepoCitz's. Phone 124. Otto B. Schulze. Nashville, Mich,

Poland China Special

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

.. S. P. C.

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

H. O. SWARTZ, Shoolcraft, Mich.

GRAIN AND HAY SHOW.

P LANS have been made for the sec-ond annual Grain and Hay Show to be held in connection with the International Live Stock Exposition, November 27 to December 4, 1920.

The Chicago Board of Trade has appropriated \$10,000 for cash premiums. In addition to special trophies already provided for the best sample of corn, best ear of corn and best exhibit of hay, trophies will be offered this year for the best exhibits of wheat and oats.

A special feature of the show will be classes for clovers, alfalfa, timothy, soy beans, cow peas, field peas, kaffir corn and milo maize.

The state agricultural colleges and the United States Department of Agriculture will make educational displays. The Province of Ontario and the Canadian Seed Growers' Association will also take a prominent place in the show this year.

Director G. I. Christie, of Purdue University, will again serve as superintendent of the grain and hay show, with W. Q. Fitch as assistant.

At a meeting of representatives of the middle western states, held September 14, arrangements were made for the active cooperation of the state agricultural colleges, state corn and crop improvement associations. There is every indication that the 1920 show will surpass that of last year in number of exhibits and in interest on the part of the grain and hay producers.

Veterinary.

CONDUCTED BY DR. W. C. FAIR.

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

Partial Paralysis.—I have six shoats weight about 175 lbs. each, on cement floor, fed on corn and swill from house. One of them has lost the use of his hindquarters, but occasionally he gets up and walks a short distance. Some of the others are walking stiff and seem to act much the same as the one that went down. One of them is not thriving and may need a tonic. M. E. Y., Williamston, Mich.—Your shoats are suffering from the effect of feeding an unbalanced ration. Corn and kitchen slop is not a balanced ration for hogs. Feed less corn, more oats, oil meal, roots, tankage, clover or alfalfa. The shoats need more exercise. Give the unthrifty one a teaspoonful pow-Partial Paralysis.—I have six shoats the unthrifty one a teaspoonful pow-dered gentian at a dose in feed twice Apply mustard and water to daily. back of paralyzed shoat 3 times a week.

Indigestion.—I have a collie pup four months old that has been ailing for the past three weeks. He is fond of the past three weeks. He is fond of potatoes. Thinking that he might have worms, I gave him a few doses of kamala, this failed to help him; then I gave calomel and santonin, but he passed no worms. He is very thin, saliva runs from mouth, and his appetite is not good. R. H., Kings Mills, Mich.—Give him five drops of fluid extract of nux vomica, eight drops of Fowler's Solution, and one grain of quinine at dose three times a day. Let him have plenty of food, the kind he craves.

Bruised Breast—On account of my horse bruising breast on manger, a swelling came between fore legs. Have swelling came between fore legs. Have been advised to cut into bunch, but hesitate doing so until I hear from you. H. G. Z., Decatur, Mich.—It on pressure with end of finger the swelling fluctuates, then open it up freely to admit of proper drainage, then swab out cavity and paint bunch every day or two with tincture of iodin. Give him sixty grains of notassium iodide twice sixty grains of potassium iodide twice daily.

Sprained Tendons.-While hauling a placed on the bargain counter for mo. of Sept. pairs or trios not akin.

H. O. SWARTZ, Shoolcraft, Mich.

Big Type Poland Chinas special bargains on all ages, some ready for service.

G. A. BAUMGARDNER, R. 2. Middleville, Mich.

Big Type Poland Chinas

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



L. T. P. C. We have a large number of spring and summer pigs ready to ship sired by such boars as "Hart's Black Price," "Leonard's Big Bob," the "Model Olansman" and "Prospect Yank" a great son of the \$40,00 Yankee. Write for prices or come and look them over if you are in the market. HART, FULCHER & CLINE, address F. T. Hart, St. Louis, Mich.

ALBAUGH-DOVER CO., 2165 Marshall Boulevard, CHICAGO

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

Big Type Poland Chinas. We want to sell you a write us and we will tell you all about him. We guarantee satisfaction.

HILLCARSH FARM. Kalamazoo, Mich.

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

Big Bob Mastodon pigs takes the cake, book your order now. Fall boars and gilts sired by a grandson of Disher Giant, open or bred to Big Bob for Sept. 23 yearling sons. O. E.GARNANT, Eaton Rapids, Mich

DIG T. P. Chinas for sale. A few tried sows, sprin boars. Aug. pigs both sex. Recorded free in buy er's name. L L. Chamberlain, Marcellus, Mich.

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

Large Type Poland China pigs, both sexes now ready, write for description and prices. RALPH SHERK, Caledonia, Mich

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

POLAND CHINAS W. J. HAGELSHAW, Augusta, Mich.

L eonards B. T. P. C. See exhibit at Mich. State Fair, get your name on mailing list for public sale Oct. 28. Double immune. E. R. Leonard, St. Louis, Mich. R. 3,

127ge Typé Poland China's. Everything immuned by double treatment. Meet me at Detroit, or Jackson Fairs. A. A. Feldkamp, R. 2, Manchester, Mich,

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

Big Type Poland China boars best \$40 choice. Frank Oliver, R. 2, Saline, Mich.

HAMPSHIRES

1914 - - - - - 1920 Choice Spring boars, popular breeding. Booking orders for fall pigs. All stock Cholera Immuned and guaranteed Breeeders. Satisfaction guaranteed,

STEUBEN'S HAMPSHIRE FARM

Edgewood Hampshires All bred gilts sold. Now booking orders for gilts bred for fall farrow, and pigs for pig club work only. Depew Head, Edgewood Farm, Marion, Ohio.

Hampshires get your boar pigs, now a few bred gilts left new blood lines of quality.

JOHN W. SYNDER, R. 4, St. Johns, Mich.

YORKSHIRES BRED GILTS WATERMAN & WATERMAN Ann Arbor, Mich. Packard Rd.

SHEEP.

Delaine Rams B. & C. type, having size quality, best of breeding, priced to sell, write.
S. H. SANDERS, B. 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 flock or improve the old one call at the farm or write for just what you want.

O. H. WHITTUM, Eaton Rapids, Mich.

SHROPSHIRES Vearling and Lamb rams sired by Imp. Berry No. 163 for sale. Also a few ewes. ARTHUR DODDS, Lapeer, Michigan

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

DAN BOOHER, B. 4, Evart, Mich.

Shropshires yearling Rams that have size and type for sale.

ARMSTRONG BROS., R. 3, Fowlerville, Mich.

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

Shropshires Yearling and rams, with quality, from imported stock.
W. B. McQUILLAN, R. 7, Howell, Mich.

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

Registered Hampshire Sheep both reasonable. Lone Cedar Farm, Pontiac, Mich.

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

HAMPSHIRES

Begistered Rams all ages. Bred'for size, type, quality. Sire at head of flock, I. S. C. No. 25463. Half brother to the Grand Champion ewe at International 1918 Bred by Iowa State College. Also a few good ewes.

W. W. CASLER, Ovid, Mich.

Registered Hampshire Rams ready to ship. 40 year lings, 20 ram lambs also a few good ewes. A. M. Welch & Sons, J. B. Welch, Manager, Ionia, Mich.

Reg. Oxfords. Yearling rams and ram lambs. Breeding ewes and ewe lambs. individuals, prices right. HUGH HODGINS, Yale, Mich

Oxford Rams For Sale

Choice of 12 Reg. lamb rams at \$35. one good yearling at \$50.00. EARL C. McCARTY, Bad Axe, Mich.

Want a Sheep? Let American Hampshire Sheep Association send you dandy booklet with list of breeders. Write A. TYLER, 22 Woodl and Ave. Detroit, Mich.

Cotswolds yearling rams. ram lambs, Cotswolds dian rams.

A. M. BORTEL, Britton, Mich.

Reg. Oxford Rams ready to ship at \$80, sq. and \$40, reg. and delivered. J. Robert Hicks, St. Johns, Mich.

for Sale Oxford rams and ewes sired by McKerrows 3800, Assn. No. 88347. Write your wants. Geo. T. Abbott, Palms, Mich. Phone 78-3 Deckerville

Oxford Rams yearling and ram lambs and tered.

H. W. MANN, R. 1, Dansville, Mich.

To close an estate I offer for sale twenty Lincoln Rams Lambs yearlings and two year old at rea-sonable prices they are a fine bunch. ROBT. J. KNIGHT, Cass City, Mich.

For Sale A nice lot of registered Lincoln yearling, 2 yr. old and ram lambs for sale. Prices reasonable, D. T. KNIGHT, Marlette, Mich.

For Sale 4 Full Blooded Ramboulett rams
ALLEN ANGELL, Hubbard Lake Michigan

FOR SALE Registered Rambouilet ewes 1 to 5 years old also five year.

J. W. GRAHAM, Davisburg, Mich

For Sale fine yearling rams. Extra good fleeces, good bone and bred by a Broughton Ram. C.R. LELAND, Ann Arbor, Mich. Phone 7152F5, R.R.5,

HORSES

BAY MARE

For Sale, sound and right in every way, weight about 950 bs. Must be sold at once come and see her or write L. J. Hamlin, 496 Hurlbut Ave., Detroit, Mich.

Percher n Stallions and mares at reasonable prices; inspection invited.

F. L. KING & SON. Chartlotte, Mich.

Please Mention The Michigan Farmer when writing to advertisers



Chicago.—No. 2 red \$2.05½@2.07; December \$1.89½; March \$1.88¼. Corn.

Detroit.—Cash No. 2 mixed 95c; No.

Chicago.—No. 1 mixed 91½@95c; No. 2 yellow 92@97¼c.

Oats.
Detroit.—Cash No. 2 white 60c; No. 3 white 58½c; No. 4 white 55½c.

Chicago.—No. 2 white 52@541/2c; No. 4 white 52c.

Beans.

Detroit.—Immediate and prompt are lower at \$4.55 per cwt.

Chicago.-Quiet. Hand-picked beans hold choice to fancy at \$6.50@7.

New York.—Dull. Choice pea \$6.50; do medium \$7.25.

Rye. Detroit.—Cash No. 2 \$1.71. Seeds.

Detroit.—Prime red clover spot and ctober \$14; December \$14.50; alsike \$16.50; timothy \$3.40.

point on the crop. Weakness in sterling exchange, increases in the Canadian crop estimates, sharp declines in corn, slumps in general commodities and a rush by mills to purchase Canadian wheat were factors in the maradian wheat were factors in the market's weakness. While American farmers in a position to hold wheat are inclined to do so, Canadian producers seem willing to sell upon the current scale of values, and purchases by our mills in Canadian markets have practically offset sales for export in our markets. Since this is the season when the movement of domestic spring wheat is usually at its heighth, ex-treme scarcity of the choicer kinds in our northwest is indicated.

The total crop in Argentina, Australia and South Africa is estimated as 28 per cent greater than in 1919. Argentina is expected to have a crop above the average and in a recent statement from Australia the crop is estimated at 144,000,000 bushels, against 46,000,000 bushels last year and well above the ten-year average. The recent estimates of the Canadian crop indicate a yield from thirty to sixty million bushels greater than a month ago. If these figures are correct, the total crop available for export from North Amer ica during the present crop year should be 450,000,000 bushels or more. Since July 1 about 135,000,000 bushels of wheat and flour have been exported, of which about 105,000,000 bushels were from the United States. Considerably more wheat has been sold for export at a later date, but it is apparent that there is little likelihood of the exhaustion of the North American surplus within the next three months, by which time some wheat in the south-ern hemisphere will be available. This ern hemisphere will be available. This summary leaves Russia and southwest ern Europe out of consideration. An official statement from the agricultural control commission of the Soviet government says that the Russian cities will face starvation this winter. All Light to common status advices from that—country indicate that there is little likelihood of Russian wheat being a factor in the world's market during the part year.

15.45 15.55 84 lbs down, medium, good and choice \$10.70@13.50; do culls and common at \$7.50@10; spring lambs medium, good, choice and prime \$8@9.75; ewes, medium, good and choice \$4.50@5.55; do culls and common \$2.25@4.25; breeding ewes full mouths to yearlings \$5@ 8.50; yearling wethers medium, good and choice \$10.50@12.35. world's market during the next year.

CORN

which are around 3,200,000,000 bushels. At the same time sales of Argentine corn to the eastern coast have been unusually large. The main support under the market at the present time is the helical that the present time is the belief that the prices upon the new crop deliveries are so low that farmers will decline to sell freely. Present prices for corn are low com-pared with the general level of com-

Cash oats are down to a point where not much above 40@45c can be obtained by farmers, depending on the section of the country. This is not only below cost of production but approachbelow cost of production but approaches the pre-war level without making any allowance for the decreased purchasing power of the dollat. The crop movement presumably has passed the peak and demand is unlikely to become less than it has been during the last few weeks. No purchases for export are being made. Banks are showing greater willingness in certain quarters to loan money on outs because of ters to loan money on oats because of their cheapness, enabling farmers to

Little barley is being sold for export but the old rye surplus has been absorbed by a movement abroad of 38,000,000 bushels in the last six months.

FEEDS

Mill feeds took another hunt for bottom levels the past week. Weakness in wheat and feed grains was a factor **Toledo.—Prime cash \$14; December \$14.50; alsike \$16.75; timothy \$3.20.

WHEAT

Prices of cash wheat and futures declined the past week to the lowest point on the crop. Weakness in sterly point on the crop. Weakness i

ing the past week. Since prices customarily reach bottom during this season trade interests are wondering whether the low point has been uncovered as yet. Greater strength can be expected in the next month or six weeks at least. Buffalo—Timothy No. 1 \$30@32; No. 2 \$29@30; No. 3 \$26

BEANS

Of all farm products, beans have probably gone farthest toward a return to pre-war values. Production during 1918 and 1919 was large and supplemented by heavy importations as a result of which markets have been extremely unsatisfactory. The current crop is estimated at 9,101,000 bushels compared with 11,488,000 bushels harvested last year. The Michigan crop is about 80 per cent as large as a year ago and some damage from blight has taken place. Prices declined during the last two months about 20 per cent and are holding steady at around \$5.65 per cwt. at Detroit.

BUTTER

a sag in the feedstuffs market after which there is an advance as winter demand develops. Detroit quotations are: Bran \$45@46; standard middlings \$52@53; flour middlings \$62; coarse corn meal \$54; cracked corn \$56; chop \$52.

SEEDS

Prices for timothy and clover seed fluctuated the past week with the grains closing near the bottom for the season. As long as the present desire to avoid owning anything lest it decline in value continues prices on condensing will find its way to butter meaning will find its way to butter condensing which can be a factor to a find the condensing which condensing whic

GRAIN QUOTATIONS
October 6, 1920.

Wheat,
Detroit.—Cash No. 2 red \$2.11; December \$1.95; March white and No. 2 mixed \$2.09.
Chicago.—No. 2 red \$2.05½@2.07;
Cash oats are down to a point where

Modity values even after the reductions at the week's close markets, and holders of storage butter ground. Quotations at the week's close markets, and holders of storage butter were as follows: Toledo—Prime red were alarmed. However, the support of the support of the seen upon the crop now ripening.

Modity values even after the reductions which have taken place within ground. Quotations at the week's close markets, and holders of storage butter of time butter came to the support of the seen upon the crop now ripening.

Modity values even after the reductions will not recover much lost factories. Prices were lowered on all ground. Quotations at the week's close markets, and holders of storage butter of time butter came to the support of the seen upon the crop now ripening.

Modity values even after the reductions at the week's close markets, and holders of storage butter of the week seeds will not recover much lost factories. Prices were lowered on all ground. Quotations at the week's close markets, and holders of storage of the seeds will not recover much lost factories. Prices were lowered on all ground. Quotations at the week's close markets, and holders of storage objects.

However, the support of the support of the specific prime red were alarmed. However, the support of the support of the support of the specific prime red were alarmed. However, the support of of the week, making a complete recovery of the early decline. The close was firm on fine stock. Undergrades accumulated and are hard to move at prices much below those on top scores, a condition which does not denote a really healthy market. Closing prices on the four markets upon 92 score butter were: Chicago 59c; New York 61½c; Boston 61c; Philadelphia 61c.

EGGS AND POULTRY

The inherent strength of the egg market was shown the past week when prices advanced in the face of declines in nearly all other foodstuffs. However, a factor of passing importance was the recent hot weather which made it difficult to get strictly fresh eggs into market centers. Stale stock is selling poorly, storage eggs being taken in preference. Prices on live poultry were on the easy side in most markets. Prices were as follows: Chicago—Eggs, fresh firsts 56@56½c; ordinary firsts 50@53c. Poultry—Spring chickens 27½c; hens, general run 23@30c; roosters 22c; ducks old and young 25@27c; geese old and young 22@23c; turkeys fancy 45c. Detroit—Eggs, fresh candled 54@57c. Live poultry, spring chickens 35@36c; Leghorns 30@32c; hens 34@35c; small hens 32@33c; specially fat hens 37@38c; roosters 20@22c; geese 18@20c; ducks 36@38c; turkeys 40@45c.

POTATOES

After a long period of decline potato markets were disposed to firm up during the latter half of last week. The show of strength was most noticeable at Chicago and adjacent shipping points, but it was noticeable also in other large terminal markets. The second even in the south is good but group. other large terminal markets. The second crop in the scuth is good but growers in the big Maine section report very disappointing yields. Shipments are only nominal in value. The latest quotations are as follows: Chicago—Northern white stock \$2.25 per cwt; eastern Giants \$2.25 per cwt; northern Early Ohios \$2@2.25.

WOOL

WOOL

Wool buyers continue to wait for a lower price level which they expect to see established in the Australian auctions which have just begun. August consumption of wool was only 38,000,000 pounds compared with a normal average of about 55,000,000 or 60,000,000 pounds. Recent London sales were closed a week earlier than originally planned because of the low prices offered and the necessity of withdrawing 60 to 70 per cent of the offerings. Recent declines in textiles have unsettled the market for goods, buyers hoping to buy cheaper later on. Bosunsettled the market for goods, buyers hoping to buy cheaper later on. Boston quotes prices, largely nominal, as follows: Ohio and Pennsylvania fleeces, Delaine, unwashed 60@65c; fine unwashed 52@57c; half-blood combing 57@58c; three-eighth-blood combing 43@45c; Michigan and New York fleeces, fine unwashed 50@52c; delaine unwashed 60c; half-blood unwashed 55@57c; Wisconsin, Missouri and average New England half-blood 55@60c; three-eighth-blood 42@43c; quarter-blood 39@40c; Kentucky, West Virginia and similar, three-eighth-blood unwashed 43@45c; quarter-blood unwashed 43@44c; quarter-blood unwashed 43@44c.

APPLES

Between a big barreled apple crop and an extremely conservative attitude on the part of buyers the market for winter apples is very unsatisfactory. At a season when the buying usually is at its height, sales in many sections have not been enough to establish prices. tablish prices.

DETROIT CITY MARKET

Movement of produce is light in comparison with the offerings for the past two months. Several loads of potatoes were held at \$1.25@1.40 a bushel with the bulk moving at \$1.25@1.30. Parsnips moved readily at \$1.50 but beets and carrots were slow sellers. Tomatoes of widely varying quality sold at from \$1@2 a bushel. Apples were reported in a little better demand at 75c@\$2. at 75c@\$2.

Live Stock Market Service

DETROIT

Cattle.

Cattle market steady.		
Best heavy steers\$	11.50@	12.00
Best handy wt bu steers	9.50@	
Mixed steers and heifers	8.50@	9.50
Handy light butchers	7.50@	
Light butchers	6.00@	7.00
Best cows	8.00@	
Butcher cows	5.50@	6.50
Common cows		4.50
Canners		4.00
Choice bulls	7.00@	7.75
Bologna bulls	6.00@	7.00
Stock bulls	5.00@	6.00
Feeders	7.00@	9.00
Stockers	6.00@	7.00
Milkers and springers\$	65@	100
Veal Calves.		
Market steady.		

Best\$18.00@19.00 Others6.00@15.00

Hogs.
Pigs steady; best hogs are 10@15c higher.

Pigs \$ 14.75
Mixed hogs 15.45@15.55
Sheep and Lambs.
Lambs 50c lower; sheep dull.

CHICAGO

Hogs.

CORN

Unusual quantities of corn have been arriving at terminal markets during the last five weeks. These have sof old corn held by farmers, and of a record crop, the latest estimates upon which are around 3,200,000,000 bushels. At the same time sales of Argentone.

Estimated receipts today are 10,000; holdover 4,094, Market 10@15c higher. Bulk of sales \$14.10@15.65; tops ing the last five weeks. These have \$15.85; heavy 250 lbs up medium, good and choice at record crop, the latest estimates upon which are around 3,200,000,000 bushels. At the same time sales of Argentone.

@15.75; light lights 130 to 150 lbs comming corn to the eastern coast have mon, medium, good and choice \$14.75. mon, medium, good and choice \$13.90 @15.35; heavy packing sows 250 lbs up smooth \$13.85@14.35; packing sows 200 lbs up rough \$13.40@13.85; pigs 130 lbs down, medium, good and choice \$12.75@14.75 \$12.75@14.75.

Market strong 25@50c higher. Beef steers, medium and heavy weight 1100 lbs up, choice and prime \$17@18.35; do medium and good \$12.25@15.75; do common \$9@12.25; light weight 1100 lbs down good and choice \$14.75@18; do common and medium \$8.25@14.50; butcher cattle, heifers, common, medium, good and choice \$6@13.50; cows, common, medium, good and choice at \$5.50@11.25; bulls, bologna and beef \$5.25@11; canners and cutters, cows and heifers \$3.75@5; co canner steers \$4.50@7; veal calves, light and handyweight medium, good and choice \$14 \$4.50@1; year carves, light and handy-weight medium, good and choice \$14.60@17.50; feeder steers, common, medium, good and choice \$7.50@12; stocker steers common, medium, good and choice \$4.50@9.50; stocker cows and heifers, common, medium, good and choice \$4.50@8; western range cattle, hand steers medium, good and choice \$4.50@8; western range cattle, hand steers medium, good and choice \$4.50@8.

choice \$4.50@8; western range cattle, beef steers, medium, good and choice \$8.75@14; do cows and heifers, medium, good and choice \$7.09.75.

Sheep and Lambs.

Estimated receipts today are 25,000.
Best grades firm; others slow. Lambs 84 lbs down, medium, good and choice \$10.70@13.50; do culls and common at \$7.50@10; spring lambs medium, good, choice and prime \$8.09.75; ewes, medium, good and choice \$4.50.05.55; do

BUFFALO Cattle.

Market for good grades steady, common slow; shipping steers \$15@17; butchers \$9@14; yearlings \$15@17; butchers \$9@14; yearings \$15@17; heifers \$6@11; cows \$7.50@10; bulls \$5.50@9.50; stockers and feeders \$5.50@8.50; fresh cows and springers \$65@130. Calves \$20.

Hogs.

Market steady. Heavy at \$16.75; mixed at \$16.75; yorkers at \$16.60; light do \$15.25@16; pigs \$15.50; roughs \$13.50; stars \$8@10.

Sheep and Lambs.

On the up rough \$13.40@13.85; pigs \$10.50; stars \$8@10. Sheep and Lambs.

12.75@14.75.

Cattle.

Estimated receipts today are 9,000.

Sheep and Lambs.

Market active; ewes are 50c lower; lambs \$7@14.25; yearlings at \$6@10; wethers \$7.50@8; ewes \$3@6.50; mixed sheep \$7@7.50.

FARM BUREAU NOTES.

Completed organization of the farm bureau elevator exchange is expected very soon.

Members of the State Farm Bureau with claims against railroads on ac-county of unjust "rates, fares, charges, classifications, regulations, or practices" are being told to file claims with the interstate commerce commission prior to March 1, 1921, through the traffic department

The American Farm Bureau Federation is negotiating with the United ation is negotiating with the United States war department to secure large amounts of material intended for use during the war but which is admirably adapted for farm use. The method of disposing of this war material would be for the American federation to send samples to the State Farm Bureau which would collect orders through the county agents. The Michigan Farm Bureau has assured the American Farm Bureau Federation that it will cooperate in the distribution of this material.

As a result of the fight by the State Farm Bureau and other agencies last

As a result of the light by the State Farm Bureau and other agencies last summer to make the telegraph com-panies responsible for losses to send-ers occasioned by mistakes in trans-mitting. Examiner Patterson, of the interstate commerce commission, has recommended that telegraph compa-nies should be lightly for damages to nies should be liable for damages to the extent of \$500 on unrepeated mes-sages and to \$5,000 on repeated mes-sages. To cover the liability senders will pay one-tenth of one per cent of the value of their massages if they wish to make use of this insurance.

DRAINAGE DEMONSTRATION.

A BIG drainage demonstration meeting will be held on the farm of John Patterson & Son, one mile northeast of Columbus Station, Friday, October 1988 tober 15 at 1:00 p. m. Arrangements are being made by the St. Clair County Farm Bureau in cooperation with the Michigan Agricultural College and the executive committee of the county bureau is preparing for the best attended and most important event in the program of the organization for this

Tile drainage work being carried on through the cooperation of a few of the leading farmers of St. Clair county, the farm bureau and the Michigan Agricultural College, in spite of delayed tile shipments, has been making very encouraging progress and the applications made for the work next year comprise between three hundred and four hundred acres. The project is be-ing accomplished by means of modern power ditching machinery and all who attend the meeting at Mr. Patterson's will have an opportunity to see the big machine in operation, which is capable of digging as high as one hundred and sixty rods of trench per day. A. J. Smith, president of the St. Clair County Farm Bureau, reports that rarely if ever, has such an array of talent been

ever, has such an array of talent been ter and spring is probable, which will secured for an agricultural meeting in this part of the state.

Another interesting and instructive feature of the big event will be the septic tank and sewer system which is also being installed on the Patterson Farm. This, too, will be open for inspection and thoroughly explained by Professor Robey and Mr. VanHaitsma. It is now possible to have all of the comforts and conveniences of the city comforts and conveniences of the city in the rural home at a comparatively small expense and this meeting will afford an unusual opportunity to learn about the most important adjunct of

the farm home.

GRASSERS OVERLOAD BEEF MAR-

BEEF shortage may be on the way but its influence was not noticeable in the making of cattle prices last week. Although choice and prime steers recorded a new top of \$18.35 at steers recorded a new top of \$18.35 at Chicago on a load of yearlings, grassy steers lost 50c@\$1, the declines being greatest on the medium and common sorts which were in seasonal abundance. Dressed beef markets in the east were sharply \$3@5 lower.

The total supply at ten leading markets showed a reduction for the week. Kansas City received less of a gorge from the Flint Hills, and St. Louis had fewer Oklahomas to digest. The northwest range is run at high tide, and

west range is run at high tide, and many of the steers from that quarter lack the degree of condition expected in view of the abundance of grass. The pastoral country must clean up before winter sets in. The southwest is prob-ably two-thirds through by this time, and the northwest supply is known to be short but it began its beef harvest late and it is useless to expect any

sharp advance from the present level of prices upon grass steers during the next month or six weeks. Scarcity of corn feds will continue for some time, but conditions do not favor belief in much higher prices for them. Cows are abundant due to the usual

culling of herds after weaning time. The cheapness of steers also contributed to the 25@75c decline upon she stuff. Canners also lost ground but bulls remain generally steady and veal calves are beginning to display seasonal weakness due to the fall born crop from dairy districts. Dressed veal prices were \$2@5 lower for the week.

CATTLE FEEDERS CONTINUE CAUTIOUS.

REDUCED country buying led to a decline of 75c@\$1.25 on stockers and lower grades of feeders, but better kinds are steady. Purchases run large-ly to fleshy kinds suitable for a quick turn, buyers wishing to avoid keeping money at eight per cent tied up very long at a time when the general scale of values is on a down grade. The of values is on a down grade. The country lacks confidence even though it has a big corn crop, most of which inevitably must be marketed on the hoof and will buy with more judgment than last year. Reports from banks continue contradictory but there is little evidence of increased liberality of laying. The outlook does not suggest a lower level on feeders than that of the past week at any time soon, although light stockers may shrink still further in value.

HOG PRICES SLIDE TOWARD WIN-TER BASIS.

HE expected increase in hog supply made itself manifest to the extent of about twenty per cent the past week and a decline of \$1@1.50 resulted. That it is the start of the fall run is indicated by the big percentage of light hogs and pigs, the latter losing \$3 in value. Eastern points have been well supplied with new crop hogs re-straining the operations of shippers in

western markets.

The break of \$2 or more from the recent high point has been sharper than the increase in supply alone would justify, especially since wholesales prices upon fresh pork remained practically unchanged during the past two weeks while erratic price changes have been taking place in the hog market. Declines in cured pork products and in numerous other commodities however, have worked against sellers of hogs. Increasing numbers of light hogs will soon destroy the advantage they have recently had in the market. Prices are certain to work lower during the certain to work lower during the next two or three months although receipts will run lighter than last year when the hog population was only slightly below the peak. The huge corn crop must be fed in large part and a profitable feeding ratio for the hogs marketed during the coming winter and spring is probable, which will tempt growers to put on weight.

C HICAGO'S lard supply decreased about thirty per cent during September and good-sized decreases were made prosumably at other states.

HAY Ship to The Old Reliable House Daniel Mc Caff ey's Sons, 623-625 Wabash Bldg., Pittsburg, Pa. tember and good-sized decreases were made presumably at other storage centers. The movement of hog products abroad is above the pre-war average and domestic consumption has shown the usual early fall expansion. There will be a good-sized carry-over of lard when the new packing season starts on November 1, but cut meat stocks are not at all burdensome. Foreign exchange is a tremendous handicap to foreign buying, otherwise our surplus would move abroad quickly. would move abroad quickly.

COMING LIVE STOCK SALES.

Holsteins-October 12, C. F. Smith, La-

peer, Michigan.

Holsteins-October 16, John B. Martin, Holsteins-October 18, West Michigan Sale, State Fair Grounds, Grand Rapids, Michigan.

Holsteins-October 16, John B. Martin, Grand Rapids, Michigan.

Holsteins—October 19-20-21, Michigan Holstein-Friesian Association. See advertisement for locations.

Company, Fair Grounds, Howell, Michigan.

Poland China—October 26-30, Central Michigan Poland China Breeders' Association, See advertisement for dates and locations.

Holsteins—Michigan Holstein-Friesian Association. See advertisement for dates and locations.



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hard wood lands. Timber was removed some years ago.
These are heavy and medium soils with a real bottom
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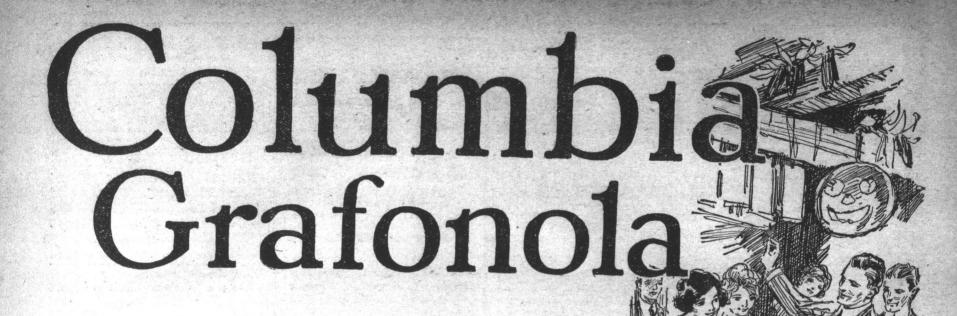


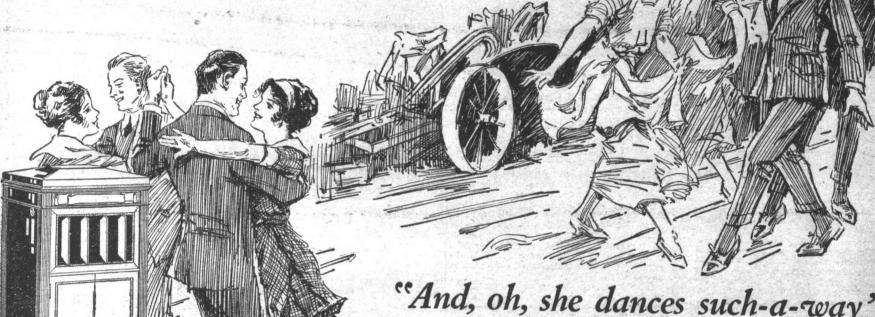
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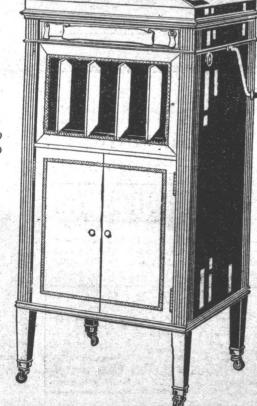


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