The Only Weekly Agricultural, Horticultural, and Live Stock Journal in the State

VOL. CLIII. No. 12 | Whole Number 4063

DETROIT, MICH., SATURDAY, SEPTEMBER 20, 1919

# Grow Your Own Food Supply

A Practical Solution of the High Cost of Living Problem.

problem in farming was to fight there can be a profit.

ment. The opening up of new territory, transportation facilities and commercial industries made possible the growth of extensive specialized farming. With many the production of certain products amounted to an obsession. Instead of having an abundant supply of the material good things of life in his garden, pantry and cellar, the farmer drifted so far from oldt-ime simplicity that he depended upon the grocery store and the meat shop for the food for his family.

The new way seemed a good one. The problem of farming was settled at least it seemed so for the time being. But no problem in agriculture is ever settled in a new country. Men had hardly begun to realize the possibilities of specialized farming before the cost of operating their farms and the cost of living began to rise. Today it is safe to predict that we shall never see cheap foodstuffs again. With farm products at comparatively low prices at the farm and the cost of production and the cost of living steadily

and the farmer's fifty-cent dollar were lar. If you doubt my statement, just dertaking of assured success. and fruit, and kept cows, pigs and freight from the farm to the mill, cultivation of grain, vegetables and of suitable varieties. poultry. His first object in farming store or packing-house; to pay the fruit there should be little sympathy Grapes, currants, raspberries and was to make a living; he shot directly vast army of workmen employed in for the man who claims that he can-strawberries should have a place in This particular epoch in the farming to buy the handsome automobiles and cheap as he can buy it. It is quite around fruit the grape ranks next to industry, however, was a short one, other odds and ends that are usually true that the average farm garden is the apple. Fifty to one hundred well

One Solution of the High Cost of Sugar Problem.

advancing, it takes a blissful ignor-control the supply of foodstuffs. The money with cows, pigs and poultry, ter to have low-headed trees, that is, ance of figures to discover much of a answer is obvious to all—the farmer, but that simply proves that they are let them have their limbs near the margin to cover risks and pay divi- This truth is so apparent that there not collecting from their farms what ground. They will yield fruit much Simultaneously with the rise in the duce as much food for his family as given their stock good care and sown higher. If the trees are in the berry cost of production and the cost of liv- possible and avoid paying extravagant and cultivated wisely. ing men suddenly awakened to the prices. The new way of specialized The man who decides to grow the and rely upon the larger fruits alone fact that other things had been hap-farming must yield to a newer way, food for his family should not abandon and start new berry rows. Currants pening to the farming business as a Something must be done to reduce the his regular farm operations. He should will continue to grow among the fruit result of extensive specialization. The high cost of living-something, too, however, plan to raise an acreage suf. trees. In fact they seem to reach their dealers and middlemen gained control that will make him independent of the ficient to yield his year's food supply greatest perfection in partially shaded of food supplies so that in every step speculators and middlemen. Plainly, and, so far as possible, be independent rows. the farmer must pay heavy tolls in then, sound sense and business econ- of fluctuating markets. Cutting down Practically every farmer has some He takes a minimum profit on what make his land and labor yield the first step toward efficient farm man-have one that he sells; he pays a maximum profit on largest possible part of the food for agement.

ed the problem of profitable farming, and make possible a system of farm- riety of fruits which you can grow.

dollar became a problem to conjure of old methods to modern conditions, home use. Beginning with the apple, of plant food. Manure is the best ferwith. The speculators, dealers and How will it pay the farmer to de- one can easily select a few trees of tilizer for the garden. Eliminate all transportation companies had full con- vote his land and labor to the produc- plum, pear, cherry and quince varie- old-fashioned beds, so the most of the trol of the markets before men realiz- tion of food for his family? The great- ties that are adapted to his soil and work can be done with a horse. There ed that the new way-the specialized er growth of food for the family will climate. No matter where you are need not be an unpleasant amount of way, if you please—had not quite solv- do much to decrease the cost of living located, there is probably a great va- hand work if properly worked with a

N the good old days when the great The farmer must make a living before ing that practically eliminates depend- The average farmer cannot afford to ence upon dealers and middlemen. It waste his time on oddities and fancy back the forest to make room for The farmer is the original fifty-fifty leaves the proceeds from the farmer's fruits; he should cling to standard crops and stock to provide food for man. He sells his products for fifty pockets and changes the business from sorts that thrive best in orchards in his family the question of middlemen cents and buys them back for a dol- an extremely speculative one to an un- his community. If in doubt about the varieties, do not listen to the advice unknown. Every prudent farmer rais- consider a moment-figure out where In the light of present day knowl- of tree peddlers, but write to your ed wheat, Indian corn, rye, vegetables all of the money comes from to pay edge about the care of stock and the nearby experiment station for a list

the mills, stores and packing-houses; not produce food for his family as the farmer's fruit garden. As an all-Differentiation accompanies develop associated with vast industries that a failure, and that few farmers make selected varieties will afford an abundance of this healthy fruit from the middle of August until frost comes. No other fruit can take the place of this fruit during its season. The currant can be grown to perfection on the average farm. It affords an abundance of fruit for canning and to fill the jelly tumblers. The raspberry is a small fruit standing in a class by itself for home use. It cannot stand up when shipped a long distance. It is a prolific bearer and will yield crops of fruit the second year after planting. Two or three rows in the garden will furnish an abundance of this fruit for table use, as well as for the cans. Farmers with plenty of land, dressing and straw for mulching should have their tables liberally supplied with strawberries. It is the quickest to give a bountiful supply for this end, because a bed made one year will yield a crop the next May or June. Apple and pear trees may be started in rows with the small fruit vines and bushes, and will begin to bear about the time bush fruits need renewing. It is betshould be no need to urge him to pro- is their just dues, provided they have earlier than trees that are headed rows one can clean out the berries

commissions and middlemen's profits. omy dictate that the farmer should the cost of staple necessities is the kind of a kitchen garden, but very few supplies the luxuries of what he buys. The farmer's fifty-cent his family. It is simply the adoption Every farmer should grow fruit for with the garden is to provide plenty

(Continued on page 346).

# The Michigan Farmer Published Weekly Established 1843 Copyright 1919 The Lawrence Publishing Co.

Editors and Proprietors 45 Congress St. West, Deta TELEPHONE MAIN 4525.

NEW YORK OFFICE—381 Fourth Ave. DHICAGO OFFICE—111 W, Washington Street, DLEVELAND OFFICE—101 1-1015 Oregon Ave., N.E., PHILADELPHIA OFFICE—261-263 South Third St. LAWRENCE ...... Pre

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TERMS OF SUBSCRIPTION: All sent postpaid.

Canadian subcription 5)c a year extra for postage.

RATES OF ADVERTISING per line agate type measurement, or \$7.00 per agate lines per inch) per insertion. No adv't for less than \$1.50 each insertion. No objec-e advertisments inserted at any time

Standard Farm Papers Association and Audit Bureau of Circulation.

Entered as Second Class Matter at the Post Office at Detroit. Michigan, Under the Act of March 3, 1879 NUMBER TWELVE VOLUME CLIII.

DETROIT, SEPTEMBER 20, 1919

# CURRENT COMMENT

### Red Clover Seed Situation

R ED clover seed is sure to be scarce and high before it is time for seeding next spring. Reports from some sections are

very discouraging so far as this year's crop of seed is concerned, and there well-posted seed authorities who predict that it will sell for thirty-five dollars per bushel before next March. It is rather venturesome for one to attempt to predict future prices of any farm crop, but those who need seed should lose no time in securing an adequate supply of good clover seed as quickly as possible.

Every farmer in Michigan should make a careful study of the present situation in small seeds and plan his actions accordingly. The prices of alsike, sweet clover, alfalfa and timothy are likely to follow the lead of clover seed and go skyrocketing before seeding time. In Toledo, one of the great world markets for small seeds, red clover seed for delivery in December is quoted at \$30; alsike \$25.05; timothy \$5.70 per bushel.

The majority of Michigan farmers should make plans to restore some of the fertility removed from their soils during the past few years by sowing more clover seed next year and giving them a partial rest. Our land has been cropped intensively during the past few years and many of our meadows are in poor condition. The higher the price of grain and cultivated crops the greater is the temptation to abandon meadows and run the land a little harder. The quicker we take a sane view of the soil fertility problem and get back to our former sensible method of crop rotation, the better is will be for us.

It seems too bad this year to see so many farmers allowing their live stock to graze down fair to good clover seed prospects. We should be sure that there is no good clover seed in the second cuttings of clover before turning stock in it. Eliminate as far as or pulling them out before cutting the seed crop. Don't cut the killed out or thin spots where weeds have taken possession of the ground. Many fields that it formerly would not pay to cut

lem, and that is the finding of some have been prepared by the executive farmers who attended this conference alternating crops as the red clover; roll call. besides the soil requirements are so Briefly the plan contemplates a com- issues for a full presentation of the seeding time next spring.

Farm Bureau Plans Approved

Michigan State Farm Bureau, to con-national, as well as a local way.

legume crop which may be used suc-committee of the state organization promises the general approval of the cessfully to take the place of red clo- were fully explained by Secretary plan by all the farmers of Michigan, ver in our crop rotations. Sweet clo- Bingham and fully discussed by the when it is fully presented to them, as ver and alfalfa may be used to some farmers present. After full discussion we believe it does, we will soon have extent, but a majority of farmers com- the plans as outlined were unanimous- a farmers' organization worthy of the plain that they do not lend themselves ly approved by every farmer present, industry which it will represent. Read so fittingly to their present system of individual expressions being taken by the tentative platform presented by

much more exacting that they fail to prehensive publicity campaign which organization plan and be ready to aid make a satisfactory stand on land will thoroughly acquaint every farmer in the organization work in a practiwhere red clover makes fairly good in the state with the nature, aims and cal way. stands. Alsike may help out on some purposes of the organization and the of our heavier types of soil, but good collective advantages which will acalsike seed is scarce and high, and crue to the farmers of the state the price is sure to go higher before through general affiliation with it. This publicity will be closely followed by membership campaigns in the vari- Showdown EADING farmers ous counties, one county at a time, unfrom a score or til the entire state has been covered, tionship should prove as broad as the more Michigan coun- The plan contemplates a substantial issue itself, and agriculture should be ties were called in membership fee which will give the or- given a fair hearing. A real showdown conference at the Fort ganization working funds, essential to is what the farmer wants, for the pub-Shelby Hotel, Detroit, its proper functioning in representing lic has not got the facts. For more last week by Secretary Bingham of the the farmers' interests in a state and than two years those who know better

Secretary Bingham, and watch future

# Agriculture Wants a

HE plans of President Wilson for the coming conference to seek fundamental means of bettering industrial rela-

have been assuming and asserting what has been generally accepted by the public as the facts, as to the huge profits farmers have made; although all the evidence in hand shows these assumptions to be untrue.

Forty-five men are to participate in the conference, one group of fifteen men to represent the general public, another group of fifteen to represent organized labor, and a third group of the same number to represent business, finance and agriculture. The President will select the fifteen who are to represent the general public. Samuel Gompers, president of the American Federation of Labor, has been asked to select the fifteen labor representatives. Of the remaining fifteen, five will be selected by the National Industrial Conference Board, two by the Investment Bankers' Association, one by the Society of Equity, one by the National Farmers' Union, one by the Grange, and five by the Chamber of Commerce of the United States.

While agriculture is given only three places out of forty-five in the conference, and many farmers believe that this is inadequate representation for the reason that the report of the conference will have a tremendous influence upon the prices of farm products, yet it is the first time in the history of the country that the farmer has had a voice in deciding industrial affairs, and we believe it is a matter for felicitation that the farmers' organizations are to have a hearing.

It is, indeed, unfortunate that the National Federation of Farm Bureaus has not progressed sufficiently to secure representation at this conference, but we have great confidence in the ability of the men who will be selected by three powerful farmers' organizations to look after the farmers' interests. The conference may aid materially in the solution of many problems confronting the different industries and the people at large, if all interests will show a spirit of give and take to the end that-they may arrive at a common understanding and avoid havoc in the form of anarchy and strikes.

Never before in the history of the country have capital, labor and agriculture had the opportunity of meeting on common ground to discuss their problems to the end that they might arrive at a basis of understanding of the factors which make for peace or unrest, as they view each other as friends or enemies. When we consider that the purpose of the conference is to seek fundamental means of bettering the relationship of capital, labor

# State Farm Bureau Platform

### Organized for Business

THE one great object of the Michigan State Farm Bureau is the promotion of agriculture:

To cooperate with the Department of Agriculture and Extension Department of the Michigan Agricultural College, not alone for production, but for a more economical production and distribution of all farm crops:

To assist the farmer in getting better marketing and transportation facilities and help solve the distributing problems;

To get in closer relation and understanding with the consumer, assisting in the correction of a great many evils that now exist between the points of production and ultimate consumption of the food products raised on the farm;

To assist in promoting better educational methods for our rural districts.

In a political way to deal with measures and policies rather than men; to insist on a fair and just hearing on all bills relating to agriculture and its development. In fact, to obtain "Justice and a Square Deal," through organized cooperative effort and a united stand for our rights.

In organization, we will perfect the same by raising the standard of our present Farm Bureau system to the same level that other industrial organizations of this country enjoy. must have the same supported by the farmers themselves, that we may be able to act wisely, intelligently and according to our own convictions at all times.

Individual business corporations are spending millions annually in promoting their interests before the general public. The future demands an investment on the part of the farmer of the future, in such an organization that will promote his interests. Such investments do not promise fabulous returns of quick wealth but they do pay interest and dividends sufficient to satisfy wise investors.

Through such organization we hope to make the conditions of farm life more profitable, attractive and appealing, that our children will stay and take up our life work instead of continuing in the rush for the city and its varied attractions;

To assist the farmer in making it possible to pay a wage that will enable him to get competent help and still retain a reasonable profit for himself.

We believe that a farmer has a right to cost of land, cost of up-keep of land, cost of labor and other legitimate expenses. Not a pound of produce should leave an American farm that does not bring the cost of economic production and a reasonable profit.

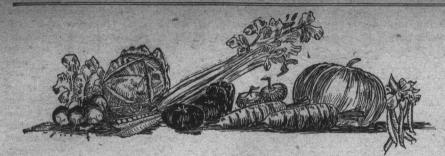
We are meeting organized labor and organized capital. We must meet these across the council table with brains, and the strongest organization the world has ever known, or the farmers of this country will be forced into peasantry.

These are some of the vital and fundamental objects, reasons, and necessities for a business Farm Bureau organization in Michigan. We do not believe in class legislation or class hatred, nor drastic and radical measures. Rather in good sound judgment as the result of clear thinking, honest investigation and good counsel. We believe in "Justice and a Square Deal," for the common good of all that Justice and Right may prevail and Democracy be made safe for the world.

C. A. BINGHAM,

Secretary Michigan State Farm Bureau, Birmingham, Mich.

and thresh for seed have matured tim- sider tentative plans for the launching The plan of organization, including and agriculture and put the question othy, and in many cases alsike and of a membership campaign on a com- membership fees and county member- of wages and cost of living upon anred clover which ought to be saved. prehensive scale and to discuss the ship drives, is similar to that which other footing we begin to realize the The fodder will not be seriously injur- advantages which would accrue to the has been so successfully followed in seriousness of the task. None of us ed for feeding and a lot of good seed farmers of the state and nation from Illinois, where many county campaigns expect a final solution of the problems may be saved to meet next spring's the building of a strong state and na have resulted in nearly one hundred to be considered, but if some of the tional farmers' organization based on per cent membership, which promises fundamentals can be found and cor-The high price and scarcity of red the farm bureau as the local unit. The well for its success in Michigan. rected a new dawn of industrial peace clover seed brings up another prob details of the tentative plans which If the unanimous approval of the will be seen upon the horizon.



# Vegetable Growers' Association of America

Eleventh Annual Convention Held at Hotel Statler, Detroit, September 9, 10, 11, 12 and 13, 1919

ing, it is difficult to secure labor on farmers were forced to get together, the farms at the wage the farmer is because the very nature of their busable to pay out of the returns he re- iness made it necessary for them to ceives for what he has to sell, and a cooperate or see their business ruined. cut in food prices alone would make "Years ago we in Southwestern the obtaining of labor an impossibility. Michigan began in a blind way to co-

up by C. W. Waid, of East Lansing, and distribution systems in use at that chairman of the committee on arrange- time were very poor, and that whenments for the eleventh annual conven- ever we had a large supply we were tion of the Vegetable Growers' Asso- sure to find our markets in a demoralciation of America, opening at Detront ized condition. In those days we had on Tuesday, September 9, and they no assistance other than copying our seem to reflect the sentiments of five ideas from other districts where conhundred of the largest growers of veg- ditions were not applicable to our disetables in the United States.

acreage. Many of them gave up vege-In Wayne county alone, where a large portion of the vegetable crops for the fight. Detroit market are grown, the vegetable growing area has been reduced more than twenty-five per cent since The only solution of the high cost of living problem is for the farmers and consumers to get together and best sales talent and correct distribuagree to wait until conditions become somewhat near normal. Farmers are not organized as are the manufactur- of standardizing the size of our basers of other commodities. That has been their weakness. A careful comparison between the increase in the form grading and more officient in cost of food products and other necessities of life will show that the farmer spection, partly through our own efits the least to blame for the present forts and partly through legislation cost of living."

The arguments advanced by speak "In any cooperative marketing undustrial or commercial enterprise. Or izing the fruit, but when you can han

growers need an elixir of some sort, you must also have prestige and finansome of my personal experiences I considerations mentioned if you make shall explain some of my views of co-n

PORCING down the prices on food operative marketing from the standproducts without materially re-point of a grower and shipper of ducing the cost of other necessi- grapes and other fruit crops from ties of life will produce a food famine Southwestern Michigan. We have had in this country in less than two years. more than ten years' experience in the One unfavorable season for field and work of cooperative marketing which truck crops will hasten the crisis. I feel will prove more interesting to Without labor, truck gardeners can- you than confining my talk to my exnot continue in business. With the periences in government work. In the cost of every necessity of life advanc- handling of perishable products the

These are some of the points brought operate, and we found that the sales trict. We made many mistakes be-According to Mr. Waid: "The ma- cause we did not know how to manjority of the truck farmers are located age our business efficiently. After gonear large industrial centers. During ing along for several years with sev-the war factory production increased eral small associations we found that enormously, big wages were paid, and we were cutting our own throats. The the labor that had been used upon the buyers were playing one of our assofarms went into the cities. With only ciations against the others by gathersuch workers as they had in their own ing in hotels and comparing notes and families, the farmers cut down their fixing prices. After a period of a number of years we were able to combine table growing because they could not and get the salesmen of the various make a success of it. Such land as associations working in harmony. We was near a rapidly growing industrial found that when we combined the sevregion was sold because real estate eral associations we had a lot of fine speculators offered big prices for it. men all looking for fine jobs, but we weathered the storm after a hard

"The principal thing that we did was to secure more efficient distribution and spread our shipments just as the orange people have done so successfully. The great secret of our suction evils. Our next problem was that form grading and more efficient ingoverning the shipment of fruit unfit

ers at the Tuesday afternoon session dertaking you can't make it profitable of the convention were for the adop- to go to the trouble of putting up stantion by the farmers of the country of dardized products in small volume. the same business principles as are For a few cars of grapes it will not the foundation of every successful in- pay to go to the expense of standardganization for better sales and distri-dle grapes in large volume it will bring bution to help both producers and con-repeat orders and build up a trade in sumers. "Cooperation Among Producthe big markets. Then again, if you ers" was discussed by Hale Tennant, put your fruits or products in the best in charge of the Government and markets and get the best dealers to State Cooperative Work in Michigan, take hold of them you must have stan-"Owing to the fact that your pro-dard goods in large volume. I feel gram is well-filled," said Mr. Tennant, that some day you will all see the im-"I shall confine my remarks to the portance of standardized goods in sufpoint and endeavor to speak rapidly, ficient volume to meet the competition In fact, I feel that some vegetable from larger organizations. I feel that If you will pardon me for relating cial strength, coupled with the other (Continued on page 348).

# "Burning the Midnight Oil"

THAT, literally, is the reason why the American has won the proud distinction of being the best educated man in the world.

Because a cheap, dependable, illuminating oil made from petroleum was developed first in the United States, the people of this country had the opportunity of studying late into the night long before such luxury was possible elsewhere.

The petroleum industry, in which the Standard Oil Company was a pioneer, has made it possible. even in remote places, for man to read, study and acquire knowledge in comfort, after the day's work is done.

The tremendous development of America shows that the American has "burned the midnight oil" to good purpose.

The seven men who manage the Standard Oil Company (Indiana), the 19,568 men and women who carry on the business, and the 4623 stockholders, all are proud of the fact that their Company has been, and is, such a potent influence in the development of the nation.

Today the Standard Oil Company (Indiana) operates the greatest and most complete refinery in the world, together with several others of lesser output.

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Thus is shown another marked benefit accruing to all from the activities of the Standard Oil Company (Indiana) as a public servant.

# Standard Oil Company

910 S. Michigan Avenue,

Chicago, Ill.

# News of the Agricultural World

GIDDINGS BUYS NEW SIRE.

head his herd. The young bull, Sir three per cent less than the average frost injured oranges, lemons or grape- of the representatives of great corpor-Sylvia Pontiac, a son of the great during the last five years. May Echo Sylvia that made forty-one tiac Lass that made 44.18 pounds of for the crop.

pound two-year old granddaughter of There was also expended for adver- it; sales efforts, and the total sales of to May Echo Sylvia, one on each side delivered value of the fruit. of his pedigree. He also has a double In spite of the general rise in the only fifty-seven carloads in these two Clyde's six nearest tested dams aver- ed and to the economical operation tailer; and by the placing of lemon FARMERS IN UPPER PENINSULA nearest dams average 33.98 pounds of of advertising is the lowest of any butter and 692 pounds of milk. He perishable fruit product in America. cost of production, an upward revision from Mr. D. L. McMillan, the present has three forty-pound dams in his four generation pedigree. Six of his sires clean collection record for the big changes needed to stabilize the domes- tion farm, to spend the day in looking have sired twelve forty-pound cows. growers' organization. The year's loss- tic lemon industry by restricting the over the equipment and live stock, and As an individual he is hard to fat, es from bad debts, uncollected bills large quantities of low grade, but ulti- becoming acquainted with the experistraight as a line, and having great and in the transmission of funds mately high-priced consumer fruit, mental work that is being done at the

# CITRUS CROP.

California for the year ending Aug- of one per cent of the f. o. b. returns. ust 31, 1919, totaled 45,692 carloads, as to the net value of high prices," A T the conference held in Chicago, appointed day, farmers began to arrive according to the annual report of G. Harold Powell, general manager of the says Mr. Powell, "unless it compares Country First Conference," called by people were present. California Fruit Growers' Exchange,

boxes of oranges and grapefruit and of these purchased by the producer, Although the farmers were not rep-3,708,667 boxes of lemons, making a while shipments of navels amounted generally."

fornia lemons that will exceed the present combined domestic and foreign supply by at least fifty per cent within the next decade. The Valencia orange crop will also increase rapidly, due to recent plantings. New navel areas are not being planted extensively and, according to the report, the navel orange has possibly reached its maximum production.

The lemon crop this year showed an increase of 70.2 per-cent over last year

and 22.3 per cent over the largest pre- packing houses, was discontinued un- keting of farm products without vicceding year. Shipments of California til the doubtful fruit could be eliminat- lating certain technicalities in the law. M. C. H. GIDDINGS, of Van Bur- lemons were 17.6 per cent more than ed. The exchange refused to handle, that could be so construed as to renen county, has purchased a the total supply of foreign and Cali- under the name 'Sunkist,' fruit that der them liable to prosecution. grand young Holstein-Friesian sire to fornia lemons in 1917-1918 and only contained more than five per cent of Echo Clyde is sired by Champion Echo supply of foreign and domestic lemons fruit.

pounds of butter and 1,005 pounds of for the exchange fruit, estimating the lemons to keep pace with the rapid It seemed a very unequal struggle to milk in seven days; 169 pounds of but- value of cars yet unsold, will be ap- increases in production, the Exchange see our Michigan representative standter and 3,767 pounds of milk in thirty proximately \$54,600,000. Using this as is planning to increase its advertising ing almost alone in defense of this resdays; 505 pounds butter and 12,899 a basis, says the report, there has and retail dealer service work during olution, which might affect the busipounds of milk in 100 days. She is been returned to California for the the coming year. The Exchange, says ness of the whole agricultural interalso the only cow in the world that 1918-1919 crop about \$75,600,000, with Mr. Powell, now ranks among the ests of this great nation; but his earhas made five seven-day records that a delivered value in the wholesale largest advertisers of food products in nest endeavor, his honesty of purpose, average over thirty-seven pounds of markets of \$100,000,000. The consum- America. butter. His sire's dam is K. P. Pon- er has paid approximately \$160,000,000

ter and 785.8 pounds of milk in seven or 1.04 per cent of the delivered value tic market. "In the fall of 1918," he ity of this large conference. of the fruit. Everything over actual says, "when the domestic supply was Sir Echo Clyde's dam is an eighteen- cost is returned to the grower.

This record was tising two and a half cents per box for foreign and California lemons combiniant the farmer has at made in hot weather, and judging oranges and four cents per box for ed, increased eighty per cent in Octofrom her looks she will no doubt when lemons, making the total average cost ber and November, over the same given a chance make a very large rec- including both the exchange service months in 1917; thirty per cent over ord. This gives Clyde a double cross and advertising of 1.62 per cent of the 1916, and twenty-three per cent over

cross to the Great King of the Ponti- cost of doing business, the operating months. The result of an almost exacs that has more A. R. O. daughters, cost of the exchange during the past clusive, uniformly distributed Califormore forty-pound, more thirty-pound, year was less than it was ten years nia supply, was an even moderate twenty-pound daughters ago. This, says the report, is due to price to the consumer; a lowering of other bull in the world, the large volume of business transact the margins by the wholesaler and reage 34.59 pounds of butter and 694 that can be developed only in a large sales by the trade on a regular merpounds of milk in seven days, includ- organized business. The exchange chandising, rather than a fluctuating, ing his dam at two years. His thirteen marketing service including the cost speculative basis.

CALIFORNIA MARKETED RECORD turned to California, through the ex- market." change, \$317,000,000. The losses from all causes during this time have been S HIPMENTS of citrus fruits from approximately \$8,000, or about 1-4000

Growers' Exchange shipped 11,108,070 of commodities in general, particularly course be pursued by all concerned. and explained his work.

ties of oranges and 203,188 boxes of ment of frost damaged fruit, particu- lation for the betterment of existing Henry Perry of the Cloverland Magalarly under the Sunkist brand, whose conditions and to tranquilize the wave zine.

vested before the frost and in the down the cost of distribution and mar- tributing them to the farmers.

very heavy, the Exchange increased 1915. The foreign fruit amounted to

The report shows a remarkably of the tariff is one of the fundamental superintendent of the experiment staamounts to only \$464.38. During the which, as during the summer months station. last sixteen years there has been re- of 1919, are dumped on the American

#### MILO CAMPBELL SPEAKS FOR AGRICULTURE.

its returns with the values of other the Illinois Manufacturers' Associawhich was issued yesterday. The state commodities, and particularly those tion many interests were represented. on land clearing were carried on by a

except in 1917-1918, when two thirds resented by a large number of dele-short speeches were given by Presitotal of 14,816,737 boxes. This is 72.2 of the citrus crop was destroyed by gates their cause was ably champion dent F. S. Kedzie, Dean R. S. Shaw, per cent of the total shipment of cit- the heat wave in June. The rise in ed by Hon. Milo Campbell, of Michi- Professor Cox of the Farm Crops Deper cent of the total shipment of cit-rus fruits from California. The Valenprice of the small crop of oranges, gan, who had the honor of being separtment, Dr. Eben Mumford, all of rus fruits from California. The Valencia shipment through the exchange towhich then remained, slightly exceed-lected as a member of the Committee the Michigan Agricultural College; taled 6,275,000 boxes during the year, ed the rise in prices of commodities on Resolutions and as such had an im- Mr. Jason Woodman, member of the In his annual report Mr. Powell that were to be submitted to congress Doelle, secretary of the Upper Peninto 5,723,784 boxes. There were also In his annual report Mr. Powell that were to be submitted to congress Doelle, secretary of the Upper Penin730,387 boxes of miscellaneous varietakes a firm stand against the ship-for consideration in formulating legis- sula Development Bureau, and Mr. quality the exchange can control. In of unrest that is sweeping over the

California during January, according to retain the confidence of the trade one by the Michigan member, (Mr. varieties. A large number of experito the exchange report. However, despite this the crops of Valencia oranstandard of grade and quality of 'Sun-codify or amend the Sherman Anti-mine the best varieties of different standard of grade and quality of 'Sun-codify or amend the Sherman Anti-mine the best varieties of different standard of grade and quality of 'Sun-codify or amend the Sherman Anti-mine the best varieties of different standard of grade and quality of 'Sun-codify or amend the Sherman Anti-mine the best varieties of different standard of grade and quality of 'Sun-codify or amend the Sherman Anti-mine the best varieties of different standard of grade and quality of 'Sun-codify or amend the Sherman Anti-mine the best varieties of different standard of grade and quality of 'Sun-codify or amend the Sherman Anti-mine the best varieties of different standard of grade and quality of 'Sun-codify or amend the Sherman Anti-mine the best varieties of different standard of grade and quality of 'Sun-codify or amend the Sherman Anti-mine the best varieties of different standard of grade and quality of 'Sun-codify or amend the Sherman Anti-mine the best varieties of different standard of grade and quality of 'Sun-codify or amend the Sherman Anti-mine the best varieties of different standard of grade and quality of 'Sun-codify or amend the Sherman Anti-mine the best varieties of different standard of grade and quality of 'Sun-codify or amend the Sherman Anti-mine the best varieties of different standard of grade and quality of 'Sun-codify or amend the Sherman Anti-mine the best varieties of different standard of grade and quality of 'Sun-codify or amend the Sherman Anti-mine the best varieties of different standard of grade and quality of 'Sun-codify or amend the Sherman Anti-mine the standard of grade and quality of 'Sun-codify or amend the Sherman Anti-mine the standard of grade and quality of 'Sun-codify or amend the standard of grade and quality of 'Sun-codify or amend the standard of grade and quality of 'Sun-codify or amend the standard of grade an ges and lemons were each the largest kist' brand. The shipment of fruit un-Trust Law that farmers could unite in crops for this section, with the intenever shipped from the state. The reder 'Sunkist,' except that already har collective bargaining in order to keep tion of developing the best and dis-

This resolution was opposed by some ations as a request for class legisla-Because of the necessity for increastion, and they certainly made very elo-The returns f. o. b. cars California ing the consumption of oranges and quent and earnest pleas for its defeat. and the game fighting spirit that he Speaking of the large predicted in- displayed overcame the eloquence of crease in the annual crop of California his many opponents, and I am happy butter in seven days, and his two near- The exchange service, exclusive of lemons, Mr. Powell refers to the effect to say that he won the fight and the est dams average 42.59 pounds of but- advertising, averaged 5.2 cents per box of foreign importations upon a domes- resolution was passed by a fair major-

> I am hoping that your many readers who are engaged in agriculture may realize that the farmer has at considered as one of the great elements of production, and that he may consider the advisability and see the necessity of attending these great assemblies of industry and take an active part in framing the policies of our nation, of which the farmers comprise

# SPEND DAY AT CHATHAM.

peculative basis.

"In view of the rapid advance in the The farmers of the Upper Peninsu-

The county agents advertised the picnic very thoroughly in each of the counties, and as a result a large crowd of farmers promised to attend. In spite of the fact that the weather looked unfavorable on the morning of the

During the forenoon demonstrations produced 35,778 carloads of oranges which the producer has to buy. The The object of this conference was to powder company, and by stump-pulland grapefruit and 9,914 carloads of advance in prices on all citrus fruits formulate some plan by which the ing machines. Mr. Kotila, in charge since the beginning of the war has present unrest of the people could be of potato disease work at the station, Members of the California Fruit not kept pace with the rise in prices quieted and a more safe and same took the farmers to the potato fields

> After a picnic dinner in the grove, portant part in drafting the resolutions State Board of Agriculture; Mr. John

California orange and lemon ship ments for the year were reduced about ten per cent by the cold weather in ten per cent by the cold weather in the exchange took instant action tions submitted to the conference was perimental plots of grain and potato.

A large number of experimental plots of experimental plots of grain and potato. The remainder of the afternoon was

> The day offered an opportunity for the farmers to become acquainted with the experiment station farm and what it aimed to do in an experimental and helpful way for the agriculture of the Upper Peninsula. They voted unanimously to make the picnic an annual affair in order that there might be a better understanding and closer cooperation between the station and the farmers of this section. B. P. P.



#### THE UPPER STORIES OF THE BARN.

BY E. L. VINCENT.

NO part of the ordinary farm barn is more likely to be neglected at time of building than is the upper part, the part above the main floors. And because we do not finish this up as we ought to when the work is going on, we are very apt to leave it always in the same incomplete and unsatisfac-

To show what I mean, let me speak of a case I knew. The wife of the farmer wanted a straw bed filled. The men folks were out on the place at work. She was of an independent turn of mind and she mounted to the highest scaffold, some twelve or fourteen feet above the big barn floor, and put down the needed straw herself. But before she had finished her work and gotten down, she went straight down through the scafforld to the floor below. As it happened, she went through standing straight up and struck on the straw below, so that she was not hurt, save as the scare gave her a shock. If there had been a good floor on that scaffold that accident never would have happened. I have seen many scaffolds, in which the only floor was made of rough slabs laid rounding side up. I was always glad to get down safely whenever I had been on a scaffold as dangerous as that.

In laying the floor in the upper story of our own barn, I gave it two layers of boards, breaking joints so that no seeds and dust would rattle down to the floor below and there would be no danger of breaking through. That is, I believe, the best way to lay a scaffold floor. Old boards may be used for the first layer, but the top floor ought to be of good boards free from check or broken spots. The higher above the main floor these scaffolds are, the more secure should be the flooring upon them; and certainly the joists upon which the boards are laid ought to be perfectly sound and capable of sustaining any weight that may be put upon them.

The matter of reaching these upper floors in the barn is one of considerable importance. Many of the older barns of the country have no better ways of going from floor to floor than to climb ladders. Where these exist at all, they are usually built into the middle posts, and of course, perfectly perpendicular. It requires 'no small amount of strength to get up such a ladder. None but a strong man should ever try it.

When we were building our barn, I said, "No climbing a ladder for us. We will have a good pair of stairs to go from the main floor to the scaffolds above." And we did put in such a flight of stairs, wide enough and easy to climb, so that it is no more difficult to get from floor to floor than it is in the house

A thing which happened in our neighborhood a few years ago is impressive enough to prove how careful we should be about our ways of getting up and down in the barn. It was a busy time of the year. The farmer was delayed about doing his chores. The wife wanted to do what she could to help things along. She climbed over into the silo and put out the ensilage for the stock. Then she pulled herself up by her arms to the opening at which she came in. That was the end of things with her. Something inside her body snapped. In less than a day she was dead. An awful thing, we say, and so it was, and the worse because it might have been avoided. A short ladder set over in the silo, with rounds close together, would have saved her

While the best time is to finish up the scaffold when the barn is first built it is always in order to make such changes as are needed to make the higher floors safe.

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Regular price, one year.....\$5.00 **OUR PRICE ONLY \$3.90** 

# New York Fruit Growers' Ou

men from New Jersey, Ohio and In- of dollars.

in the orchard. One was unsprayed. tion, Another was sprayed in the pre-pink period, and the third was given the aract brand is that the apples be packings. The beneficial effects of the size as those in the middle.

the surface. Late in July a cover crop operator." of clover is sown if the weather is favorable. If seeding is delayed until late sometimes chemical fertilizers. Prun-ing begins when the leaves are off the ten packing houses, the county associeased wood and removing enough of apples, \$1,000 bushels of peaches, are more reliable and therefore more the healthy branches to let the sun- 530 tons of grapes and 100 tons of shine in to ripen the fruit. The trees plums and prunes. The association profitable. are sprayed several times, and thin-

The Niagara county cooperative spraying service established two years

ditions found in them. Weather fore-tions of packing houses are being from Toronto University.

orchard inspection in which the cation of spray material, the inspector through a central organization. New York State Fruit Growers' notifies the Farm Bureau office that Association has participated for sever- such is the case, what material to use eled through the beautiful Niagara ries. Ten years ago this was an old al years has been adopted as the pol- and when to finish as based on weath- county fruit district, reaching Niagara grain farm. Barnyard manure has icy of its successor, the New York er forecasts. The Farm Bureau tele- Falls in the evening. In this county, been depended upon to maintain a State Horticultural Society. An auto- phones to one man in each zone for especially along the lake shore, are high condition of productiveness. This mobile trip of two days was recently which the recommendation is made, many fine old fruit farms, with large manure is purchased from Hamilton, made through the fruit districts of This man telephones to three men and houses equipped with modern improve- St. Catherines and Buffalo. The annu-Niagara county, New York, and the each of the three men to three other ments, extensive home grounds and al fruit sales aggregate \$20,000. Niagara Peninsula of Canada. Sixty- men apiece, and so on until all growers other evidences of generations of thrift The Canadian farmers are enthusi-

are forty-three acres of apples, forty look small, and the little ones make acres of peaches, and ten acres of the large ones look coarse. A restau- er small, averaging around thirty ably be the prevailing price for approximately approximately and \$5.00 a bushel the market pears. These yield a gross income of rant proprietor who desires apples for acres, but the returns per acre are ples, and \$5.00 a bushel the market at least \$20,000 in a good year, one baking cannot use such fruit because large under the intensive cultivation price for peaches. Both in Western orchard of mature trees having a record he must treat his customers all alike, they receive. Peaches, plums, cherries, of \$1,600 gross income per acre. These to the extent of giving them all the grapes and berries are the leading the average of peaches. results are obtained by the following same sized baked apple. If the fruit crops. The soil is not well suitmethods: As soon as the ground is in is to be sold cooperatively and by pool- ed to apple culture and in consequence condition to work in the spring it is ing, quarter-inch sizing is advisable, apples are not getting nearly as much the most plausible, however, is that plowed shallow, then it is kept contin- On the individual farm, however, the consideration here as formerly, and the heavy freeze late in April weakually pulverized with an orchard har quarter-inch sizing of apples is almost several orchards are being replaced by row that leaves a fine dust mulch on impossible unless the grower is a large pears and small fruits from which a

> Last year seven cooperative central few pears and plums. This fall, with

tated the dividing of the out necessarily making cooperative grapes.

One of the requirements of the Cat. it has been profitable to the owners. provincial legislature.

The route through the Canadian pre-pink and pink sprays. The results ed in quarter-inch sizes so that no ap-fruit belt led down the west side of the tricts visited by the New York State up to the present time show that two ples in a barrel will vary in size more Niagara River to Niagara on the Lake, Horticultural Society members are sprays, the pre-pink and pink, are nec- than a quarter of an inch. The apples and westward to St. Catherines and generally far below the average. In essary in such localities for Rome, are packed over a grader, and every Grimsby in the center of a fruit dis- Niagara county, on the New York side. McIntosh, Twenty-ounce and Green- barrel is faced with apples of the same trict equal to the most highly develop- they traveled through orchard after or-

greater profit is derived. The Canadian peach growers also say that peach cul- velop the fruit. ture is on the decline. They claim in August rye and vetch are sown. packing houses in Niagara county that the number of poor peach crops pects are somewhat better for peaches The cover crop is supplemented with ples, 50,000 bushels of peaches, and a liberal dressings of stable manure and few nears and plums. This fall with er follow the peach-growing business, proved unfavorable to these fruits. The trees, and consists in cutting out dis-ation expects to handle 45,000 barrels on results. Pears, plums and berries spring in Canadian orchards. One

are sprayed several times, and thinning is practiced when necessary to
secure high quality fruit.

passed by. The vines showed the elfects of excellent culture, and were er localities were so badly affected
ation of more than \$5,000,000. It has
laden with fruit unusually large for that almost every leaf was distorted,
secure high quality fruit. this time of year. In reply to the ques- swollen, and turned a brownish color. Manager Peet says that cooperative tion, what are the Canadian vineyard. Most of these trees will not enter winago under the management of Farm packing and selling are closely asso- ists going to do with their grapes, with ter nearly so healthy nor bear so large Bureau Manager N. R. Peet and Mr. ciated, yet there is a vast difference wine-making prohibited, an extensive a crop next year as if they had not Strickland has proved of valuable as- between central packing and coopera- grower near Grimsby said that the been attacked by leaf curl. Canadian sistance to the fruit growers of the tive selling. A central packing house crop would be largely shipped to the growers quite generally agree that association may be formed to coopera- Canadian Northwest where there is a pears will be sixty per cent of a full The diversity in soil types and cli- tively grade and pack their fruit with rapidly growing demand for table crop.

ment by the Farm Bureau and distrib- York counties it is not unreasonable tion, is the small fruit farm of Phillip growers disbanded at Grimsby with uted to the growers by this coopera- to predict that in time the cooperative D. Wisnar, from two acres of which expressions of appreciation for the tive service. Whenever conditions in selling end will be more largely devel- twelve hundred crates of strawberries warmth of their reception by the Canthe criterion orchard in any zone oped and a considerable part of the were sold this season, bringing the adian farmers.

HE annual summer outing and makes it advisable to put on an appli- fruit in this district will be sold owner \$10 a crate. Many acres were planted in Cuthbert and Marlboro red All day long the fruit growers trav- raspberries and Kittatinny blackber-

five automobiles, carrying upwards of are notified. Each grower writes down and prosperity. Fruit orchards have astic cooperators. Their organization two hundred and fifty persons were in the recommendations on blanks and made their owners well-to-do, develop- is known as the United Farmers of line when the start was made from reads it back to the man who gives ed prosperous villages and been the Ontario, and has 45,000 members en-Medina, Orleans county, and many him the information. This insures ac- main support of several thriving cities. rolled in 1,200 farmers' clubs in the more joined the party on the second curacy. The spraying service has An exception to the prescribed rules province. It has a director in each day's trip west of the Niagara River, proved to be very helpful to growers, of orchard care was seen on the Mann county, and is affiliated with all the Accompanying the party were several in making the spraying more efficient, farm, near Olcott Beach, now owned farmers' organizations in Canada, unfruit growers and agricultural college and has saved them many thousands by P. P. Landy. The orchard of forty- der the Canadian Council of Agriculone acres on this farm has not been ture. It is organized both for coopera-At Burt, a fruit-shipping station on pruned in twenty years. The heads tive and political purposes. In its first The first stop was made at the farm the R. W. & O. division of the New were started low and the lower limbs five months' effort to market the farmof Frank M. Bradley, of Barker, a for York Central Railroad, the fruit grow- reach the ground. When the writer ers' live stock, the United Farmers capmer president of the New York State ers visited a central packing house. It visited this orchard two years ago it tured over one-fifth of the business in Fruit Growers' Association. In a Rome was built last summer at a cost of was bearing a large crop of fruit, al- the Toronto Stock Yards Exchange, orchard on this place, L. F. Strickland, \$5,000, including the equipment. There though there were few apples to be doing a business of over \$3,000,000 in state fruit inspector, is conducting are ten cooperative central packing found in the other orchards in the stock sales during that time. It is some interesting experiments in apple houses in Niagara county, all selling county. Conditions are similar this sea- planning to do a business of \$6,000,000 scab control. This orchard is situated their fruit under a common label, the son. There is a small apple crop in the to \$10,000,000 by January 1, and its in an area near the lake that is subject Cataract brand. They are operated by locality, but this unpruned orchard membership at the present rate of to fogs and extremely heavy dews, a associations of growers federated into with its bushy, scraggy trees, is carry- growth will be 250,000 before the end condition favorable to the development a central association known as the Ni- ing a good crop of fruit. It is claimed of the year. The Ontario farmers are of apple scab. There were three plots agara District Fruit Growers' Associa- that it has not failed to bear a crop of making an effort to elect a man in evfruit since it was five years old, and ery county to represent them in their

The fruit crops throughout the diswas much scab infestation on the under side of the leaves, Mr. Strickland advised spraying from the ground.

In Mr. Bradley's bearing orchards are forty-three acres of apples, forty

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In Mr. Bradley's bearing orchards are forty-three acres of apples, forty ed fruit sections in New York or Mich- chard that showed not over twenty-The farms in this fruit belt are rath- ples and that \$7.00 a barrel will prob-New York and Canada there has been The experts are unable to agree upon the cause for this condition. One of ened the productive capacity of the buds, and as a result there is not sufficient vitality remaining to fully de-

> Over on the Canadian side the pros-Canadian expert says that in early June more than half of the peach or-Acres and acres of vineyards were chards between Beamsville and St.

At Grimsby, where luncheon was county into zones, the conditions in sales. If fruit is graded to a uniform At Vineland Station, near Grimsby, served in the village inn, an informal each zone being somewhat similar. standard he believes the selling end of is located the Vineland Horticultural meeting of the growers adopted a res-One orchard of each kind of fruit in the proposition will largely take care Experiment Station, with a farm of olution approving the special weather each zone is designated as a criterion of itself. The Niagara county cooper- one hundred and sixty acres largely in forecast service furnished at Rochesterorchard. The inspection is made in ative movement has developed strong- fruit. The peach orchards consist of a by the United States Weather Bureau. these orchards, and it is understood by ly as a fruit packing and grading agen- large number of varieties, planted for President Allen of the Niagara Peninthe growers that the information sent cy, rather than as a cooperative sell-variety test purposes, and the first ear- sula Fruit Growers' Association, made out by the inspector is based on con- ing organization. As similar associa- lies were being picked by farmerettes a brief address in which he said the bond of friendship was closer than evcasts are received from the govern-formed in several other western New In Jordan, near the experiment sta- er between America and Canada. The E. E. R.

Training for Head and Hand

To AND TRACTOR BUSINESS On truck trait Co. The demonstration of the contract o

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DETROIT, MICH.U.S.A.
an State Auto School enjoys a very enn and is probably one of the best of its
distribution to the very endistribution of the very truly
process of the period of the comprocess of the company.

#### KING MOTOR CAR COMPANY



plying to a recent letter addressed to Mr. Artemas i making inquiry as to the reputation of the Mich-State Auto School, will say that as far as I know al-lif Automobile manufacurers endorse the work they oing. It is managed very efficiently and they have turning out some pretty good men for the automo-ndustry and cannot see any reason why you should ate about taking a course with this institution. KING MOTOR CAR COMPANY.



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We guarantee to qualify you for a position as chauffeur, repair man, tester, demonstrator, auto electrician, garage man, automobile dealer, or tractor mechanic and operator, paying from \$100 to \$400 monthly or refund your money.

Detroit is the Auto Center of the World—"the Heart of the Auto Industry". 71% of all automobiles are made here. Detroit is the home of the biggest Auto Factories in the World. Think what it means to get the fullest co-operation of all these big factories. They know the completeness of our equipment and the thoroughness of our methods. That's why M. S. A. S. Graduates—Detroit Trained Men—get the preference. Start Any Time
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Instruction can start same day you arrive,—no wasted time. Three classes daily—morning, afternoon and evening. Instructions complete and intensely interesting. Instructors are thoroughly competent men—all members of Society of Automotive Engineers. Students given every possible assistance, both at school and after graduation. If necessary, we assist you to get job to help pay expenses.

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Every phase of Automobile, truck and tractor work is covered in our course. You are taught every part of a gasoline engine,—familiarized with every kind of engine so that you can handle any job that comes to you. You are taught all about transmissions, differentials, ignition, starting, lighting, etc. Nothing is omitted. Our course is most complete, comprehensive, practical and sensible. Everything is made plain and simple.

Complete Tractor Course Included

Our regular Auto Course also includes complete instruction on the care, repair and maintenance of Farm Tractors. Manufacturers give fullest co-operation. International, Moline and Emerson-Brantingham Co.'s have recently placed New Tractors with us for the use of our students. Read the International Harvester Co. letter below.

\*\*Tour practice of co-operating with the factories for very commendable for it brings together the biggest manufactures for letter the biggest manufactures for letter below.

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# STATE

"Most Progressive Auto School In America"

1009 Auto Building, 687-89-91 Woodward Avenue,

"In the Heart of the Auto Industry"

DETROIT, MICH., U. S. A.

OU know your sheep cannot successfully combat Stomach Worms, Tape Worms, Fluke Worms or other parasitic growths—WITH-OUT YOUR HELP.

The loss of sheep from stomach worms alone makes a tremendous total each year. Add to this the waste of keeping animals that are badly run down in health, and you will realize the vital importance of being prepared with a safe, sure preventive, a reliable stock conditioner, and an absolutely efficient worm destroyer.

# Medicated

is the original, standard, made-on-honor salt tonic and worm killer. It kills and destroys all worms in stomach and intestines—and expels them from the body. At the same time it aids the digestion, tones up the system, purifies the blood, and gives the animal the strength and stamina to resist disease. It is a guaranteed worm and parasite destroyer—and invaluable as a preventive

### No Money Needed Pay Only When Results Prove RIGHT

Tell us how many sheep you own—also how many horses, cattle, and hogs. We will supply you with enough Felt's Medicated Salt for two months' feeding for all your animals. No strings to this offer. You are to be the judge.

Send the coupon today, or drop us a card. Our booklet which states just what Felt's Medicated Salt is guaranteed to do—and what it will not do—and which tells exactly what this safe, reliable, standard preparation contains—will be sent on request.

We want to do business with business farmers—men whose word is as good as ours. We want to hear from sheep breeders who realize the importance of freeing sheep and all farm animals of all worms in stomach and intestines. We have no cure-alls—no magic preparations—but we have a dependable, time-tested, medicated salt that will do all we claim for it—and more. Write



#### The Felt Medicated Salt Co., 220 North State Street, Marion, Ohio

Felt Medicated Salt Co., 220 N. State St., Marion, Ohio. Marion, Ohio.

Gantlemen:—Without placing myself under obligation, send me details of your Riskless Two Months' Test Offer.

(State number of animals owned.) Sheep..... Cattle..... Horses..... Hogs..... Name ......

Address .....



Be sure the range you buy is a good baker. You use your range more than any other article in your home. There are three meals to be cooked every day, besides all the baking. And when you buy a new range you expect to use it for many years. Ask your dealer to show you the Joy

The Range With the "Hot-All-Over" Top

It is a guaranteed baker. You don't have to fly to the oven constantly to watch if pies, bread or cake are baking evenly. The heat is distributed uniformly over the entire oven

bottom. You can control your oven temperature by admitting just as much head as you want around the oven by means of the Adjustable Damper.

Write us for Free Illustrated Booklet

**ECLIPSE STOVE COMPANY** 

MANSFIELD, OHIO

# September Crop Report

have improved during the past month, tons. according to the joint crop report is- . The estimated number of hogs on Field Agent, United States Bureau of last year. Crop Estimates. Moderately cool The production of wool has increasing of fall grains. Threshing is pro- parts of the state. gressing rapidly, with comparatively Early threshing returns on clover have been reported.

No change is made in the estimated and are entirely lost in some sections. production of winter wheat from last wheat during the month.

grown in the state. The hot, dry sea- tions. son was unfavorable for the crop so The commercial apple crop of Michi-

cent indicates a total crop of 61,631, of a full crop in the state. 000 bushels; as it is estimated that Sugar beets have made a gain of month, and about 8,000,000 bushels better than on the same date last year. more than was harvested last year.

compared with 66,320,000 bushels last lows: year, and is the smallest production since 1907. The yield is estimated at 23.2 bushels per acre.

Barley also suffered from the hot and dry summer, and the total production is estimated at 5,124,000 as compared with 8,360,000 bushels last year. The yield per acre is estimated at 18.3 bushels.

Buckwheat has improved during the past month, and if frost does not interfere the outlook is for a good crop. The present condition of seventy-eight 895,000 bushels.

The estimated yield of rye is 16.0 bushels per acre, and the total production, 9,136,000 bushels as compared

with 6,811,000 bushels last year. The late potato crop has held up well throughout the long drought, but is in a critical condition now. Unless rains come immediately the crop will be very short except in a few northern counties where the moisture has been sufficient. The condition is generally good in the Cadillac district, but in the Upper Peninsula, Montcalm county, and some southern counties, the prospect is for less than one-half crop. The outlook is for a crop of 28,032,000 bushels as compared with 28,560,000 bushels last year.

The inquiry on hay develops the information that the average yield of A dime saved in using a dirty packthe total crop 2,962,000 tons as com- price of your fruit.

THE prospects for corn, alfalfa, pared with 2,676,000 tons last year, millet, buckwheat, pastures, sug- Wild hay yielded 1.25 tons per acre ar beets and some of the fruits and a total crop estimated at 51,000

sued by Coleman C. Vaughan, Secre-September 1 for fattening purposes is tary of State, and Verne H. Church, 1,265,000, or three per cent more than

weather prevailed, with only light, lo- ed eight per cent over last year, givcal frosts over very small areas. The ing a total estimated clip of 9,466,000 rainfall was generally deficient, but pounds. Large flocks of sheep are bethe local showers were of great bene- ing brought from western ranges and fit to pastures, clover seedings, corn located on the cut-over lands of the and root crops. The ground is exceed-northern counties. There is also a ingly dry over much of the state and tendency to increase the size and numis hindering the plowing for and seed- ber of flocks on the farms in many

light yields of oats, barley and spring seed indicate a fairly good yield. Howwheat, good yields of winter wheat, ever, the acreage is small, being only and fair yields of rye. The acreage of eighty per cent of that cut last year clover seed is small, but of the little which was also a year of small threshed to date some good yields acreage. Last spring's seedings have been severely injured by the drought

The prospect for beans has improvmonth's report, which was 19,247,000 ed during the month. The estimated bushels. The amount of wheat mar- production is placed at 3,534,000 bushketed during the month, as reported els, the condition being seventy-seven by mills and elevators, was 1,750,000 per cent as compared with eighty-two bushels; twenty-one mills and sixteen in New York, sixty-five in Colorado, elevators reported the purchase of no ninety-two in New Mexico, and seventy-one in California. Much of the The acreage of spring wheat is 66,- crop is matured and the crop is being 000, which is probably the largest ever harvested under ideal weather condi-

that the yield was reduced to 12.2 gan is thirty-five per cent as comparbushels per acre, or a total production ed with twenty-seven in New York, of 804,000 bushels, as compared with forty-six in Virginia, twenty-six in Ill-778,000 bushels from 43,000 acres last inois, forty-three in Missouri, and forty-three in Missouri, and forty-eight The corn crop has revived consider- for the United States. The commerably under the influence of moderate cial peach crop in Michigan is sixteen temperatures and local showers dur- per cent as compared with the same ing August. It is maturing nicely and percentage in Ohio, twenty-five per will be out of danger of frost within cent in New York, and seventy-five per a few days. Much has already been cent in the United States. The pear cut and shocked or put into silos. The crop is estimated at sixty-five per cent present condition of eighty-seven per and the grape crop at ninety per cent

forty per cent of this is utilized as fourteen per cent during the month, silage, there remains a grain crop of having risen to a condition of eighty-36,979,000 bushels, or nearly 3,000,000 six per cent, one per cent better than bushels more than estimated last the ten-year average and four per cent

Amount of grain and seed threshed, The crop of oats is comparatively as reported by threshermen up to and light, being only 36,169,000 bushels as including August 23, 1919, is as fol-

| Crop.        | Acres.  | Bushels.   |
|--------------|---------|------------|
| Winter wheat | 492,790 | 10,195,104 |
| Spring wheat | 25,901  | 319,550    |
| Rye          | 477,221 | 6,694,169  |
| Oats         | 387,029 | 9,336,293  |
| Speltz       | 4,399   | 76,977     |
| Barley       | 88,992  | 1,554,198  |
| Buckwheat    | 93      | 1,320      |
| Peas         | 1,980   | 21,162     |
| Timothy seed | 226     | 630        |
| Clover seed  | 3,792   | 8,299      |
|              |         |            |

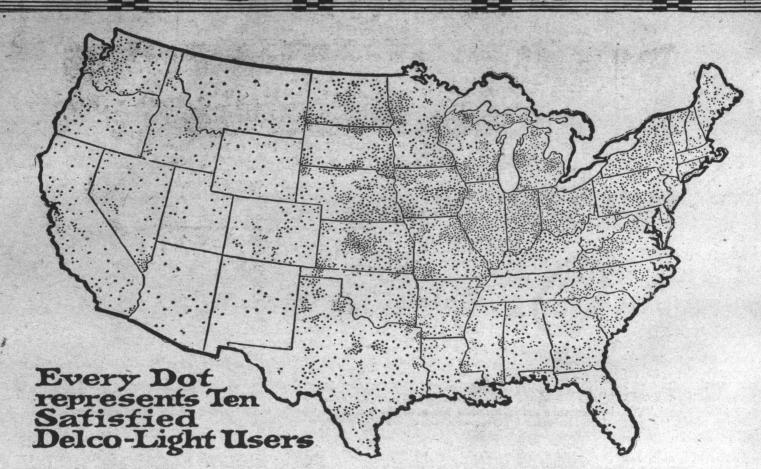
#### FEDERAL CROP REPORT.

The Crop Reporting Board of the per cent indicates a yield of 14.4 bush. Bureau of Crop Estimates, makes the els per acre, or a total production of following estimate from reports of its correspondents and agents:

Total Production in Millions of Bushels.

|                  | Sept. | 1918. | 1913- |
|------------------|-------|-------|-------|
|                  | Fore- | Dec.  | 1917  |
|                  | cast. | Esti. | Ave.  |
| Winter wheat     |       | 558   | 555   |
| Spring wheat     | 208   | 359 - | 236   |
| All wheat        | 923   | 917   | 791   |
| Corn2            | ,853  | 2,583 | 2,749 |
| Oats1            | ,225  | 1,538 | 1.331 |
| Barley           | 195   | 256   | 199   |
| Buckwheat        | 17.2  | 17.2  | 14.7  |
| Rye              |       | 90.2  | 50.0  |
| White potatoes.  |       | 400   | 366   |
| Tobacco, lbs1    | ,279  | 1,340 | 1.091 |
| Flax             | 10.2  | 14.7  | 13.8  |
| Hay, all tons    |       | 90.4  | 96.9  |
| Cotton           |       |       | 12.8  |
| S. beets, tons   |       | 5.89  | 6.04  |
| Apples, total    |       | 170   | 198   |
| Apples, com'rl . |       | 24.7  |       |
| Peaches          | 50.4  | 34.1  | 48.8  |
|                  |       |       |       |

tame hay is 1.20 tons per acre, making age will knock a quarter off the selling



# More Than 75,000 Satisfied Users

DELCO-LIGHT was designed and built by men who were raised in farm homes—who experienced the discomforts and inconveniences of farm life—and who set out deliberately years ago to develop an electric plant that would provide city advantages for rural communities.

They were the same men whose engineering talent had made DELCO Starting, Lighting and Ignition Equipment for automobiles the standard of the world—

They knew electricity—and they knew the needs and limitations of farm life—

They knew that an electric plant to give service in a farm home must be simple, so that it would not get out of order and require complicated repairs—

It must be easily operated and require little attention—

It must be very economical in operation—

No Matter Where You Live There Is A Delco Light Field Representative Near You It must be built to stand hard usage and it must last indefinitely—

It required five years to develop a plant that would measure up to these specifications.

There were five years of hard engineering effort back of DELCO-LIGHT before the first plant was put on the market three and a half years ago.

Today DELCO-LIGHT is furnishing the conveniences and comforts of electricity to more than Seventy-five Thousand farm homes.

It is providing an abundance of clean, bright, economical electric light for these homes. It is furnishing power to pump water, operate washing machine, churn, separator, vacuum cleaner, electric iron, milking machine, and other small machinery.

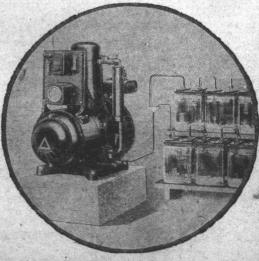
And everywhere it is demonstrating its wonderful efficiency—and actually paying for itself in time and labor saved.

# **DELCO-LIGHT**

A complete electric light and power plant for farms and country homes, self-cranking—air-cooled—ball bearings—no belts—only one place to Oil—Thick Plates—Long Lived Battery—RUNS ON KEROSENE

The Domestic Engineering Company, Dayton, Ohio Distributors:

M. L. Lasley, 23 Elizabeth St., East, Detroit, Mich. Pringle-Matthews Co., 18 Fulton St., West, Grand Rapids, Mich.





# An Instrument -not a Machine

THE Dalion is not a mere collection of mechanical parts. It is a musical instrument - exactly as much of one as a fine violin. The tone throat, that vital phonograph member which forms the character of the reproduction, is made of critically selected violin wood, treated and hand-shaped with violin-like exactness. Not a tack, nail or screw or scrap of clangy metal touches it. It is instrumentized.

The tone chamber is also built of hand-shaped instrument wood and gives the ample resonance of a perfect orchestra shell. Dalion makes living music out of every subtle tone shade in the original record.

Write for name of nearest dealer and hear the Dalion play all makes of records. Our handsome booklet, sent on request, tells you how to judge phonograph values.

Milwaukee Talking Machine Mfg. Co. Milwaukee, Wis.



# R. K. TIRES

ARE FIRST CLASS

First class materials, plus first class workmanship, makes a first class tire. Retreaded, then double chain stitched—the treads and casings the best possible. We know that every tire will do better service than you expected of it.

Guaranteed, of course—even at these little

Add \$1.00 to the above for Non-Skid Tire 2 percent off for cash with order. 10 percent deposit required with all C.O.D. orders

R. K. Tire Company 837 No. Broad St. Philadelphia, Pa.

Send for descriptive booklet and price list. Good Territory Open for Live Agents

The Airedale Dog MOST WONDERFUL Great watch, stock, rat and hunting dog. Does any ing any dog can do—and does it better. Thorough of pedigreed pupples at farmers Prices. Descrip Maywood, Illinois

Sale Rosen Rye grown from pedegreed tests 56 lbs. M. J.

The township does not pay the tax; stand of clover. and the only remedy provided by the statute is "the said tax to be collected GROW YOUR OWN FOOD SUPPLY. in the same manner that other taxes are collected. The legislature might easily have provided a more speedy remedy, but the only one provided is by the sale of the land as for other taxes. Of course, the cost to the man paying the tax increases very rapidly when the tax becomes delinquent, the same as other taxes, but the remedy to the other party is rather slow.

JOHN R. ROOD.

#### FERTILIZER FOR RYE.

I own a farm at Mendon, Mich., and forty acres of rye. Ground is a sandy

portant.

or three per cent nitrogen in the fer- his home. the Bosen Bye. Reg. No. 8151, Class 1. Weighs 54% this. to bu. Less then 10 bu. lots 33: 10 bu. and over 175 bars included. Prompt Shiment S. A. Foster. barely possible that this sandy soil is cemos, Mich. Member Mich. Imp. Crop Ass'n. somewhat deficient in potash and if it

C. C. L.

(Continued from first page). horse and cultivator. Leave room at the ends for turning with the horse while cultivating. A small garden will be sufficient for family use. It should be planned to suit the needs of the family, and no two families will agree as to the amount of each kind of vegetables to grow. By studying out the time it requires the various crops to mature, one can plan other crops to take their places as soon as they are consumed.

Potatoes, squashes, pumpkins, popcorn, cabbages and the like may be I wish to furnish my tenant with com-mercial fertilizer to put on at least grown to good advantage by planting

organic matter need little else, but if keep enough cows and poultry to supthey have been poorly managed, no phy his table with milk and eggs, butparticular pains taken to plow down ter, cream and an occasional dressed sods or to apply stable manure to keep fowl. By keeping sheep and fattening organic matter in the soil, they are a few pigs each year one can have an quite liable to be deficient in nitrogen abundance of fresh, salt and smoked so that they will not produce good meats at all times: The practice of crops. A few of our soils for certain running to the meat shop three or crops also need potash but on the av- four times a week and paying from fiferage Michigan soils for a cereal crop teen to twenty-five cents a pound for like rye, potash is not so very im- the same cuts of meat that one sells to the butcher for eight or ten cents Not knowing the immediate history a pound shows that there is a lack of of this land one cannot state with very good sense on the part of many farmmuch confidence the brand of fertilizers. If one has a flock of sheep it is er to be used. If there has been a easy to kill a lamb occasionally and good sod plowed down in the last year sell neighbors and townsfolk what or two, or if stable manure has been cannot be utilized at home. With salt applied, my judgment would be that pork, smoked hams, shoulders, bacon from two to three hundred pounds of and sausage, the wants of the family acid phosphate would be the best pos- will be pretty well supplied as to meat

As I say, if this soil is somewhat run in many cases, measured by the destrikers back. down by poor management, then two gree to which his farm overshadows

### FIRM TO LEASE FARMS.

# News of the Week

Wednesday, September 10.

Our Service Department

FORCING PAYMENT FOR LINE
FENCE.

I built a line fence which was appraised by the fence-viewers. The cost of the fence was spread on the tax rou by the supervisor. The treasurer accepted state, county, township, school and road taxes, and the fence tax was returned to the county treasurer unpaid. Do I have to wait until the land is sold for taxes, or does the township pay me the tax due?

Wednesday, September 10.

A CARNIVAL of crime and disorder follows police strike in Boston.

John Mitchel, noted labor leader, dies in New York hospital.—Mexican leaders ask United States to help expel Carranza.—Wilson in a speech at St. Paul says that the United States is predestined world's arbiter, and asserts that though the peace covenant is an experiment, if it is rejected the people. will be in a mood to start a revolution. "We shall not be drawn into war," he promises, "but we will be drawn into consultations."—Mine workers of America demand higher wages and shorter hours, threatening a nation-wide strike.—Canadians demand rights as a nation.

Thursday, September 11.

HREE are killed as machine guns rake Boston mobs during police strike. The situation is acute as the workers threaten sympathy strike.—
General Pershing leads his famous
First Division over a five-mile flowerstrewn pathway in New York parade.
—It is expected that the fight on the peace treaty will be started on the floor of the house Monday.—The steel workers ignore President Wilson's request and vote to strike. It is predicted that 250,000 men will quit work.

Friday, September 12.

B OSTON mounts guns and barricades stores as general strike impends.—President Wilson says in refpends.—President Wilson says in reference to the police strike in Boston: "Leaving that city at the mercy of thugs, is a crime against civilization."—Railway men plant a chain of mail order stores to cut the high cost of living.—Republicans predict defeat of peace treaty in struggles which will open Monday, unless reservations are included in it.—

forty acres of rye. Ground is a sandy a few rows across the ends of the corn peace treaty in struggles which will open Monday, unless reservations are included in it.—

Saturday, September 13. PRESIDENT WILSON says in Rath-drum, Idaho, speech that America grown in this part of Illinois know nothing of the commercial fertilizers and I am more than anxious to build up my land, and hope to make my home in Michigan. P. S., Illinois. Generally speaking, Michigan soils are more deficient in phosphorus than in the other two essential elements of plant food—nitrogen and potash,consequently it always pays to use phosphorus. Soils that are well filled with organic matter need little else, but if the season of their harvest may be adjusted in the season of their harv

Sunday, September 14. PRESIDENT WILSON'S launch was In collision with another boat in Seattle harbor. The President and party were uninjured.—Herbert Hoovparty were uninjured.—Herbert Hoover has returned from Europe. He refused all war decorations, saying that such decorations are for soldiers of the field. He says peace is the most important issue, and asks for unchanged peace pact.—St. Paul, Minn., favors unchanged peace pact and gives President Wilson rousing welcome.—Mine workers of America in convention favor an alliance with the railroad workers and freight handlers and endorse the Plumb rail plan.—

Monday, September 15.

Monday, September 15. ABOR leaders urge President Wilson to take action against food profiteers.—Two hundred thousand thousand Germans threaten to invade Poland.— Steelworkers' strike is postponed at President Wilson's request until after acid phosphate would be the best possible brand of fertilizer to use. This can be purchased in the form of a fourteen or sixteen per cent acid phosphate and may be purchased of any reliable fertilizer manufacturer. You can note the fertilizer advertisements in the Michigan Farmer and make no mistake in ordering.

As I say, if this soil is somewhat run down by poor management, then two gree to which his farm overshadows is the labor conference October 6.—Two hundred and fifty prominent Americans, republicans and democrats alike, ask the United States Senate to ratify the peace treaty "without amendment and without delay." Both ex-President Wilson's request until after the labor conference October 6.—Two hundred and fifty prominent Americans, republicans and democrats alike, ask the United States Senate to ratify the peace treaty "without amendment and without delay." Both ex-President Taft and Samuel Gompers sign the proceeds exchanged for foodstuffs is the slave of men with more money and stronger minds. His prosperity is, in many cases, measured by the dedown by poor management, then two

Tuesday, September 16. FIFTEEN or more die and 4,000 are left homeless as the result of the hurricane in Texas.—President Wilson is then this also should be added. ORGANIZATION of the Falls Stock Lodge's plans, and hopes for the sena-Profitable Employment
Use your spare time profitably by representing the Michigan Farmer in your neighborhood. You can work up a pleasant and profitable business taking care of new and renewal subscriptions for us. You will be interested in our special literature and attractive subscription rates. Address,

The Michigan Farmer, Detroit, Mich.

Is then this also should be added. Where one has not experimented with concern for the leasing and operation a tor's assistance in "carrying out the concern for the leasing and operation at the sense. Company brings into operation a tor's assistance in "carrying out the desired ends."—Boston sympathetic strike danger is fading. The unions are planning to appeal to the courts of have the discharged police taken it is always safest to use a complete farming and the reclaiming of wet, between the discharged police taken it is always safest to use a complete farming and the reclaiming of wet, submerged, overflowed and swamp phosphorus and potash, say a 2-12-2, lands. The capital is \$30,000.

The purchase price of trees is only phoric acid, and two per cent of potash, is the safest fertilizer to apply to obtain results. If you had used fertilibe well spent.

The Michigan Farmer, Detroit, Mich.



METHODS OF HARVESTING BUCK-WHEAT.

A SHORT time ago an inquiry was answered in the Michigan Farmer relative to the best method to be used in harvesting buckwheat. The writer is raising a considerable acreage, and has for several years been forced to employ various methods in harvesting, depending on weather conditions.

On land which is level, there is possibility that the ground will become too soft for the operation of the grain harvester. This is particularly true on clay soils, and at the season when buckwheat should be cut the weather is quite unreliable. The writer believes the ordinary grain harvester will operate as successfully on ground on which the side delivery reaper will operate with success, providing the binder works easily and is in good condition.

I have used the mower two seasons to cut a portion of the crop. A table may be readily made by nailing some light boards to inch-square pieces.



Harvesting Buckwheat.

These boards should be so nailed as to make a table about three feet wide. and as long as the cutter bar. One person should follow the mower, using a hand rake, and with a raking motion pull the grain down on the table. When the table is nicely covered the one raking may easily rake off the grain. With quick stepping he can catch up with the mower. Last year I followed a machine cutting upward of twenty acres in this manner. It is necessary to set up each time around. This requires two or three times the time of cutting a swath. Much of the buckwheat the writer cut last year with a mower was when the ground was so soft that in parts of the field the machine cut in six or eight inches. Under such conditions a mower which is not in first-class condition, and which does not run easily will cut in too deeply, or the wheels will have a tendency to slide. The writer has observed a bunching attachment which would possibly be very desirable for use on wet fields. This could be used to advantage and with a large degree of profit where buckwheat is short. The writer used the grain harvester ago on a particular The grain was short, and perhaps onefourth of the grain was combed under the table. In spite of the short stalks, the clusters were exceptionally wellfilled, and the use of the mower, and an extra man would have been profit-

It was necessary to cradle about a dozen acres of our last year's crop. Buckwheat is more easily handled in this way than oats or wheat and the chief handicap is in pulling one's feet out of the sticky mud, which is exceptionally bad when one is compelled to



OU will need to do some entertain-Y ing this fall and winter. Everybody wants to dance. Consider the help you will get from a Gulbransen Player-Piano.

You can always depend upon the Gulbransen for good dance music—the latest jazz songs, the old favorites. It offers a larger repertoire than any orchestra.

Its full piano tone is ample and inspiring. It makes you independent of hired talent, saves you money, keeps your par-ties delightfully informal.

And everybody can play the Gulbransen with all the zip and swing you could ask. It is quite the thing to take a turn at it while resting from dancing. The Gulbransen is so Easy to Play it will not tire you.

In fact, a tiny baby once crept up to the Gulbransen and, so gently do the pedals operate, the baby played it just as shown in the picture at the right. That is where we got the idea for our trade mark.

But the Gulbransen is not only easy to pedal. It is easy to play well, expressively, sympathetically, brilliantly - as suits the occasion. It gives you a new idea of player-pianos.

Go to the Gulbransen dealer and try a Gulbransen. You will find him by the Baby at the Pedals in his window and newspaper advertising. Or write us for his address.

Try some of these popular dance songs. The Gulbransen dealer has them. They sound particularly well on the Gulbransen. You ought to know them.

Hindustan How You Gonna Keep 'Em Down on the Farm Beautiful Ohio And That Aiz'' All Marv Garden of My Dreams Me-ow Oui, Oul, Marie

I'm Always Chasing Rainbows Till We Meet Again Minnie, Shimmie for Me Jerry Oh. Helen Oh, Helen
I'm Forever Blowing Bubbles
Tulip Time—Follies 1919
Turkestan
Everybody Calls Me Honey
Tishoning Bound

Southern Nights

### Nationally Priced

Three models, all playable by hand or by roll, sold at the same prices to everybody, everywhere in the U. S., freight and war tax paid. Prices branded in the back of each instrument at the factory.

> White House Model \$675 Country Seat Model 585 Suburban Model

Gulbransen-Dickinson Co. 825 N. Sawyer Ave.



# ayer-Pian



## SEEDS WANTED

Michigan Grown
Winter Vetch, Rye and Vetch, June and Mammoth Clover, Alfalfa, Sweet Clover, Alsike and Field Peas. Known varieties of Garden Peas, Beans and other Garden Seeds, if High Germination and 1919 crop.

Send samples for test.
The C. E. DePuy Co. Pontiac, Mich.

#### RED ROCK WHEAT

from smut, no tye, no foul stuff. In 10 bu. lots, \$2.60, bags extra. Wesley Hile, R. D. 6, Ionia, Citizens phone Saranac, Mich.

Seed Wheat No. 1 Red Champion. The Hard-iest, strongest, most productive variety, with the least foulness of any wheat on the market. For sale by W. J. Merriam, Almont, Mich

Agricultural Lime High calcium hydrated lime lots of 20 tons or more. Delivered, price promptly quoted on request.

Stone Co., Petoskey, Mich

BARN PAINT \$1 PER GALLON Get factory prices on all paints. We guarantee quality. We pay the freight.

Franklin Color works,

Franklin, Ind.

POTATO BAGS sold direct to the grower at whole-sale prices. Lincoln Bag Co., Springfield, Ill.

Flemish Giant Rabbits, dark steel black. Grays 2 months old, \$3.00 & \$2.00 each. Pedigreed stock, DAVID RAY, 709 Norris St., Ypsilanti, Mich.

cradle. (Continued on page 349). Please Mention The Michigan Farmer When Writing to Advertisers



We are in a position to make immediate shipments of this material

The Solvay Process Go. 2091 Jefferson Ave. Detroit



SOLVAY'S Three Essential Plant Foods

POULTRY

# HOMESTEAD FARMS

This work is organized and incorporated and head-quarters have been moved to Kalamazoo.

We invite the interest and the cooperation of the farmer people of Michigan.
All our stock is guaranteed; any bird not satisfactory may be returned.

Spring Pullets-About 100 each of Barred Rocks, S. C. Black Minoreas, S, S. White and S. C. Brown Leg-

horns.

Yearling Pullets--200 S. C. White Leghorns; a limited number of our other breeds as given in our Fall Poultry circular.

Cockerels-Barred Rocks, White Bocks, Buff Rocks, Rhode Island Reds, White Wyandottes, White Orphingtons, S. C. Black Minorcas, S. C. and R. C. White and Brown Leghorns, Anconas. Quineas, Ducks, Grese--White Pekin, Gray Toulouse.

Turkeys.-Bronze, White Holland, Bourbon Reds. Rabbits--Belgians, New Zealands, Rufus Reds, Giants. Please send for circular on Fall Sale of Poultry with price list.

STATE FARMS ASSOCIATION, Kalamazoo, Michigan

### LOOK CHICKS \$13 A 100 UP

By Special Delivery Parcel Post, postage paid 20 dif-ferent thorobred breeds. Utility & Exhibition grades. Live delivery guaranteed. Capacity 100,000 weekly. Catalog free. Nabob Hatcheries. Gambier, Ohio.

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

Barred Rocks Exclusively. Baby chicks all sold. Thanks to all our customers. Order early for next season. H. H. Pierce, Jerome, Mich.

Buff Leghorns, and White Leghorns. 100 early hatched Oocker-els from great laying strains \$1.50 to \$3.00. Dr. WILLIAM SMITH, Petersburg, Mich.

Fowler's Buff Rocks Cockerels \$4 up. Utility eggs for hatching \$2,00 for 15.

R. B. FOWLER, Hartford, Mich.

For sale "Buy the Best" eggs for hatching from 200 for 45 eggs. H. B. PROCTOR, Grand Haven, Mich.

March Hatched R. I. Red Cockerels Both Combs. Write for prices and order early. Interlakes Farm. Box 39, Lawrence, Michigan

R.C. Brown

LEGHORNS,
nese Geese.

Place orders early for
mrs. Claudia Betts, Hillsdale, Mich.

S. C. B. Minorcas. Eggs from pen 1, \$3.00 per 15. from pen 2,\$2.00 per 15. Incubator eggs \$7.00 per hundred. R. W. MILLS, Saline, Mich.

Silver Golden and White Wyandottes young breeding stock after Oct. 1st. Choice cockerals \$5 to \$15. Writ your wants now. C. W. Browning, R2 Portland, Mich Single Comb White Leghorn Cockerels. Ferris 230 from \$1 to \$2.50. Alvah Stegenga, Portland, Mich.

Please Mention The Michigan Farmer When Writing to Advertisers.

### Ring Necked Pheasants

We can now make shipments of our birds. They will lay next spring—are easy to raise and do not eat one-half as much as chickens. These birds are not subject to disease—are hardy and unrelated. You can sell their young and eggs at good prices—they are much more profitable than chickens.

Single Phasants.

Single Pheasants \$ 6.00 Each 5 Hens, 1 Cock (Pen) 30.00

### Genuine Wild Mallard Ducks

Garanteed to be from nothing but genuine Wild Trapped stock—not the coarse semi-wild strain. Will lay next spring. Fine eating—good decoys— and money makers. Single Ducks or Drakes 5 Ducks, I Drake (Pen) \$5.00 Each 25.00

#### **Bloomfield Giant Bronze Turkeys**

We have some of the young for sale, from our wonderful 55 pound tom "BLOOMFIELD KING." Why not buy one of our fine extra toms and improve your flock.
Pullets . \$15.00 Fach
Occkerels 20.00 to 35.00 Each
Hens . 20.00 Fach
Toms . . 35.00 to 50.00 Each

We are accepting orders now for eggs from our Pheasants, Wild Mallard Ducks, Turkeys an Single Comb Rhode Island Red chickens for spring delivery. Orders will be filled in the tration that they are received.



# GERMOZONE The Best Pet Stock Remedy

GEO. H. LEE CO. Dept. 265

# Vegetable Growers' Association

(Continued from page 339).

select men to do the real things and key Golden Russet. not dilute the responsibilities from one "We are organized to run our own man to another. And then your or- business, and to let the other fellow ganization must be strong enough to run his, but invariably when a big coto look after its sales problems. In into the business of a community the the case of potatoes, what could an buyers and dealers are going to fight association handling one hundred cars it pretty hard. We also fight when we do, but when you put one hundred of get into a tight place and at some of these associations together you can go our stations where the buyers and out and get the best talent to manage dealers are paying more than the marsuch an organization. Then I feel that ket can stand we, no matter how much farmers must combine in such a way it hurts our pride, send them over ten as to benefit the people of the com- or twelve loads to fill their cars. We munity as a whole, as well as the in- are always willing to have such com-

tato Growers' Exchange more than potatoes than our markets can stand. bining their strength and influence to ample telling you how we have enawill be able to secure proper distribu- teed to sell all the hay produced by

I heard a man say that he would not price was \$1.54 a bushel. have any man for manager who had "Our census this fall will give us a face."

tions some are county organizations certain markets. that operate at several loading sta-

the Exchange in carloads. When we

a complete success. A cooperative or- were starting last year we had some ganization to live must not smack of staggering problems to face, but our the old-time idea of profits; if it has people have stood by us from the bestock that pays interest it cannot be ginning. Different men have so much strictly cooperative. As these move different conception of what a good ments grow larger it is important that potato is like that is has greatly comthey be formulated with great care so plicated our marketing problem. It that we will not be compelled to do has been our aim from the beginning the thing all over at some time in the to standardize our potatoes and to that end we have decided upon one vari-"Of all the problems confronting ety, the Petoskey Golden Russet, as such organizations, efficiency in man the ideal potato for our soil and cliagement is the most difficult one to mate, and at present more than sevsolve, for when five hundred men get enty-five per cent of our growers are together it is a difficult matter to get planting this variety. In some of the them all to agree on a certain proposi- counties in the Northern Peninsula tion and put the business across. You the Green Mountain reaches a higher have got to appoint directors who will degree of perfection than the Petos-

secure the best talent in the country operative organization begins to cut dividual members of an association. petition when it will help our mem-"We have now in our Michigan Po- bers secure a higher price for their seventy-five small associations com- I could go on with example after exhelp the potato industry as a whole. bled the farmers of different commu-To maintain efficient organizations we nities, not our members alone, but othmust have business vision on the part ers, to secure much better prices and of the directors, and have men with more fair treatment than they could the courage to act when they see the have received had it not been for our thing is not going right. When we organization. One example will sufhave the potato growers of the coun-fice: Last fall hay buyers offered \$15 try well-organized you can see how we a ton for hay. The Exchange guarantion and fair prices for all growers. members for \$20 a ton, whereupon the "Another thing I want to mention jobbers raised their price to \$21. Rye, before I close. We must not allow our being the first crop the farmer has to business to be controlled by senti-sell, was sought by millers at \$1.10 a ment. In my work of organizing one bushel but the Exchange forced the of our live stock shipping associations millers to pay \$1.45, while the actual

had anything to do with the live stock pretty accurate idea of how many cars shipping business. So you see he was of potatoes and other products we will willing to cut off his nose to spite his be called upon to handle so that we will be able to plan our business so Dorr D. Buell, president of the Mich- as to get them where they are wantigan Potato Growers' Exchange, spoke ed, when they are wanted and in the upon the subject of "A Producers' Or- shape they are wanted. In a recent ganization that Cooperates." In ex- trip around the markets of the counplaining the growth of the Michigan try I find the buyers all want a stan-Potato Growers' Exchange, Mr. Buell dardized product and for that reason showed a map illustrating the differ- we have selected a trade-mark and ent associations that belong to the Ex- contemplate putting our potatoes up change. The Exchange began busi- in one-hundred-pound sacks tied with ness less than a year ago with twenty- red twine. Some of the big dealers eight associations and it now has in-tell us that a one-hundred-and-fifty creased its membership to seventy-pound sack is preferable for their mareight, and several more are almost kets. We may be forced to use some ready to join. Of these new associa- one-hundred-and-fifty-pound sacks for

"Cooperative shipping organizations have been of great value in improving "You might think from our name," the quality of farm products. Our said Mr. Buell, "that we handle noth- farmers are not only putting up better ing but potatoes, but as a matter of potatoes, but now that they underfact we market all of the products stand the value of putting them on the that our farmers care to sell through market in good condition they are tak-(Continued on page 350).

# Methods of Harvesting Buckwheat

(Continued from preceding page).

harvest buckwheat, the binder canvas haul to the thresher.

In using the grain harvester one should be gone over thoroughly. All should see that the reel is entirely slats should be well tacked with douoverhauled. Any splicing or strips that ble pointed tacks and these should be are nailed on or any wiring will catch placed sufficiently close so that straw the stalks and they will gather quick- cannot readily get under the canvas ly, requiring frequent stopping of the strips. Delays and damaged canvases horses to clean the reel. I generally will be avoided if the strips are watchcarry a light stick about four feet long ed and kept in good order. Our pracand in case a stalk catches on the reel tice is to set about three or four bun-I can readily knock it off as the reel dles together, and after a reasonable comes my way. Before attempting to period is allowed for the grain to dry,



#### TEACHING CHICKS TO ROOST.

WHERE a large number of chicks are being raised in one brooder house, difficulty is often experienced in preventing the birds from piling up at night after the heat is removed, and causing serious losses. To prevent this overcrowding the birds should be taught to roost as early as possible. If roosts are made out of one-by-three-inch strips placed flat so as to provide a three-inch roosting surface, and these are placed twelve to fifteen inches from the floor, the birds can easily be taught to go to roost. If the chicks do not go up on the roost of their own accord they should be gently placed on the roosts after dark for one or two nights until they get the roosting habit.

This season of the year a constant lookout should be kept by all poultry keepers for mites in the houses and coops. A mite is very small and difficult to see unless special search is made. They are usually found in the cracks near roosts. They appear as minute, gray or reddish specks. When present in large numbers they often have the appearance of dust. Mites reproduce very rapidly and are a great source of annoyance to the hens when present in large numbers. The mites live by sucking blood from the hens. A severe attack of mites will cause the hens to lose flesh and stop laying, and will oftentimes produce death. To get rid of mites the houses must be carefully cleaned and then painted or sprayed with repellant material. A heavy spraying of coal oil followed in two or three days by giving the roosts and surrounding boards a thorough painting with crude oil will clean up the mites and keep the houses free for several months. This treatment should be applied twice yearly to all poultry houses as a precautionary measure against mites.

Missouri. T. S. TOWNSLEY.

#### THE SUCCESSFUL POULTRYMAN HAS LONG LEASE ON HIS JOB.

When a poultryman goes out of business it may not be due to a failure. Some men leave poultry production for other lines of business in the same way that there are frequent changes in other lines of trade. However, the farmers and poultrymen who really like their birds dislike to sell out because of small failures and they dislike to give up when they have made a success because they like the business and realize that it has compensations above the profit in money. That is why we have poultrymen who stick to the business even when their hens and their other farm operations have made them enough money to retire. They learn to like poultry and all kinds of live stock and find that caring for the stock makes them happier than loafing. One fine thing about the poultry business is the fact that a man would never have to give it up for his health as it is a healthy occupation. Even an old man vno nkes poultry can stay with his business after he might be too old for another business. The poultryman who succeeds should be able to look forward to old age on the farm with as little fear as any man, because as long as he can get around at all he can do something that is worth while.-K.

September 12 the second session of summer school at M. A. C. came to a successful close. This is the first year that the college has had two summer schools.



# "I Cut 27 Cords of Wood a Day" says Noah Digge, of Jacksonville, North Carolina, ith my Ottawa Log Saw under unfavorable conditions, and 52 hours I sold and delivered \$75 worth."

You, too can make big profits with the Ottawa Engine Log Saw. It is always on the job, and saws from 25 to 40 cords a day. Provides cheaper and more plentiful local fuel. Pays for itself in short time. Takes the backache and worry out of

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ADOPTED BY YOUR UNCLE SAM after rigid JOHNSON IDEAL HALTER CO., Aurora, III.

For Sale or Exchange Would like to exchange good Restaurant in good town of about 3000 in northwestern Ohio for small piece of land. Address Box P-913 care of Michigan Farmer Detroit, Mich.

CULL BEANS FOR FEED YOUNG-RANDOLPH SEED CO., OWOSSO, MICH.

WE WANT VETCH. SEND US YOUNG-RANDOLPH SEED CO. Owosso. Mich, When writing to advertisers please mention the Michigan Farmer.

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**OUR PRICE ONLY \$2.10** 

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No. 3. Michigan Farmer .....\$1.00 Swine Breeders' Journal...... .50 Today's Housewife ..... 1.00 Regular price, one year.....\$2.50 **OUR PRICE ONLY \$1.85** No. 4. Michigan Farmer .....\$1.00 People's Home Journal ...... 1.00

American Boy ..... 2.00 Regular price, one year.....\$4.00 **OUR PRICE ONLY \$3.15** 

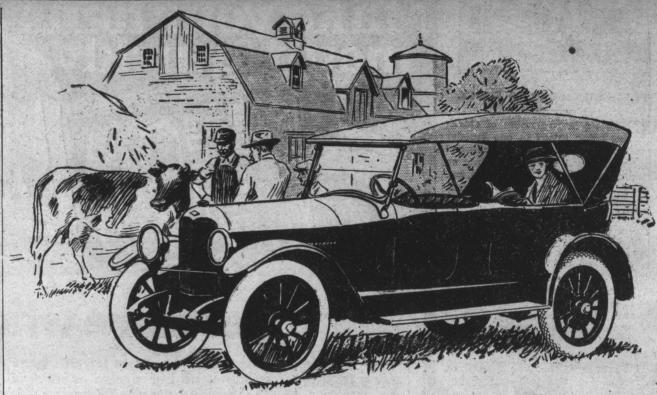
#### VEGETABLE GROWERS' ASSOCIA-TION.

(Continued from page 348). ing more pains in digging and handling them until they reach the car door or storage house. Last year we sold 2,165 cars of potatoes, or more than one-fifth of the Michigan crop, and we feel that we gave them pretty good distribution. At the beginning we had an idea that we could eliminate the extra cost of marketing by selling potatoes and other products to the welfare departments of some of the big manufacturing concerns in the industrial centers, and while we have found many of these concerns interested in this line of work they are seriously handicapped for lack of storage room.

"The Ashtabula Lettuce Growers Association," was the subject of a brief address by E. A. Dunbar who spoke from the standpoint of the small association. "We have been listening this afternoon," said Mr. Dunbar, "to men talking in large figures, and it will be my purpose to talk about a small growers' association. In our work we have found it cheaper and more satisfactory to put our products in uniform packages and select one reliable commission firm in each city to do our distributing. This gives them an opportunity to build up a trade and hold it during the season. While such an arrangement might not work out equally as well in handling a larger volume of business it has kept our marketing expenses down to a minimum, and we have seldom lost any thing through our dealing with the commission houses. At first all of our produce was shipped to one firm in Pittsburgh, but when the firm we were dealing with began to reship our goods to other cities we visited these cities and made arrangements to do our own shipping direct." Mr. Dunbar then read a paper dealing with the history of his organization; a portion of which we shall publish at some future time

Considerable interest was expressed in the address of Louis Miller regarding the work of the Toledo Market Gardeners' Association, which has been under fire of the courts for the past few days. Mr. Miller said: "One of our handicaps has been the fact that we have been unable to hire a man big enough to handle the business end of our association. The reason we organized was not the outcome of any particular conditions, but when the convention met at Toledo we or ganized to entertain them, and we liked the idea so well that we held to gether and drifted along for awhile without doing anything worth mentioning. We finally decided to incorporate and go ahead and do business in a cooperative way. On May 1, 1915, we began business, but things failed to move along smoothly, until finally we called a meeting to decide what to do. I was ready to give up the ship, but when I saw the spirit of the members I was willing to start over again. Our plans called for a ten per cent handling charge to be set aside, which proved adequate so long as the greenhouse products came along, but when the other things came along and the markets began to get slow we had to increase the percentage. So long as we are in the cooperative business we will always have the small growers with us, so we might as well tell them to grab hold of our coat tails and let us pull them along. It is the only way we can deal with the question of stabilizing the markets, even though the small shipments may be handled at a slight loss.

"You are no doubt aware that we have been indicted for holding up the prices of our products on the Toledo market. Here we have been encouraged by one great branch of the government to cooperate and practice effi-(Continued on page 352).



# The Most Beautiful Car in America

# We Share the Responsibility

Buying a Paige Car is very much like buying a high grade, first mortgage bond. Both the principal and interest of the investment are protected by a company that has never failed to meet its obligations.

Each car that is produced by this factory must satisfy two groups of people—our owners and ourselves. In each day of service it must justify its reputation and the faith that has been placed in it. It must be worthy of every Paige tradition or it cannot bear the Paige name plate.

Such, in brief, is a simple, straightforward statement of the Paige policy. It is by no means original or spectacular. But it affirms that all Paige cars are honest cars and we gladly share the responsibility of ownership.

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Mail check, cash or money order, or phone us. also ship C. O. D. subject to examination. whether you want Q D., Clincher or Straight S 3% Discount for Cash With Order. MOTOR TIRE CORPORATION, 422 Wood Street, PITTSBURG, PA

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We Have For Sale the following lands an stock, 1200 acres of fine up improved lands, well located, easy terms, 150 acres situated 5 miles from Gladwin, on daily mail route, close to school, all fenced with woven wire, 20 acres under fine state of cultivation, 5 acres in fruit, 70 acres more of same tract brushed, logged and burned; sheep ranch of 310 acres, all fenced, living water, 70 acres of this ranch cleared, 30 acres of which is under fine state of cultivation with fruit orchard. House 25:28. Sheep sheds and barn 64:39. Tool house 16:32. 170 sheep, 110 this season's lambs. We have three fine Stock Ranches, well grassed, well fenced, living water.

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the Easiest Way.

Buy the latest improved bag holder now—it pays for itself many times over in time and labor saved Quickest to operate. Sacks cannot slip off. Will last ten years to a lifetime. Represents a cost of less than 50 cents a year—considering the high cest of cost or less than 50 cents a year—considering the high cost of labor you cannot afford to be without one. Price \$5.00 Duluth. If your hardware or implement deater cannot supply you, we will ship a the to you by averyess.

Universal Bag Hold er Co., Dept. M Duluth, Minn

120-Acre High-Grade Michigan Farm, with Pair

ed and good; 2-story 7 room house, large modern stock barns, silo, cement floor hog houses, granary, corn, poultry, carriage houses, etc. Owner cannot longer manage farm, must sell quick, names low price \$11,200 for everything, only \$4,000 cash needed. Details page 76 Fail Catalog, just out. Write for your free copy this 100-page book of Farm Bargains from Maine to Florida and west to Nebraska. STROUT FARM AGENCY, 814BC Ford Bldg., Detroit.

For Sale

Ideal Sheep Land in heart of lower Michigan, Clove Seed Belt, where settlers are paying for land with clover seed. Fertile soil that grows wheat, com, oats, har ley, peas, clover, affalfa, vector, fruits and vegetables for to Fifteen Dollars an acre. One Dollar an acre down, long time for balance at 6%.

John G. Krauth,

Millersburg, Presque Isle County, Michigan,

160 Acre Bargain. 100 acres under plow, balance buildings, close to school, churches, and stores, 12 head of catele and all farm tools and crops, Price, 37500. eres, good buildings. Close to to city, \$1300. cres, stock, tools and crops, \$5250.

80 acres, stock, tools and All on easy terms.

John Conant, Grand Haven, Mich.

WANTED to hear from owner of farm or un-improved land for sale.

O. K. Hawley, Baldwin, Wisconsin,

Looking for a Farm? Don't fall to send for our list and prices.
T. S. AUBLE CO. WELLINGTON, OHIO.

New List Of Gladwin Co. Farms. There was never a better time to buy a farm than right now. Send for list U. G. Reynolds, Gladwin, Mich

Rich Michigan Farms. Low prices, Easy terms. STAFFELD BROTH. ERS. 15 Merrill Building, Saginaw, Michigan

Rich Michigan Farms. Improved and unimproved. Clay subsoil and clovered. Well drained, near school. C. M. Smith, State Bank, Coleman, Mich.;

Rich Farms E. Z., Best Ingham or Eaton county, house, See Arnold, 203 N. Cedar St., Lansing, Mich.

Fruit and poultry farm for sale in Oakland county. 1200 young apple trees. 1000 Leghorn chicks. Write F. J. Barrett, Detroit, Mich.

# Salesmen Wanted

We pay salary to good subscription getters, who can devote their entire time to our work. The offer our salaried men handle is especially attractive to farmers.

The Michigan Farmer

# WORLD EVENTS IN PICTURES



Miss Evelina Gleaves, daughter of Rear Admiral Gleaves, who has been appointed commander of the Asiatic Fleet. Miss Gleaves and her mother have sailed for ing Admiral Gleaves' tour.

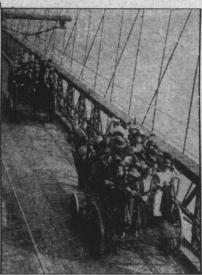
Prince of Wales inspecting wounded Canadian soldiers.



Lieut. B. W. Maynard, U. S. A. Air Service, who won the speed hon-ors in the Air Derby from New York to Toronto and return, a distance of 1,042 miles, by flying it in 4651/4 minutes actual flying time.



Farmers' Autos at the State Fair.—This view shows a few of the farmers' autos parked near the Administration Building at the State Fair.



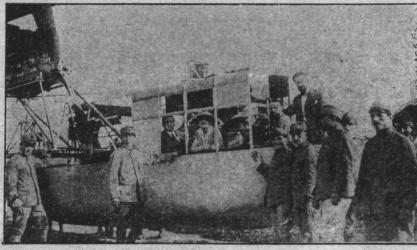
"The End of a Perfect Day" during the Brooklyn Trolley Strike. With 112 strikes reported in Brooklyn by a police inspector the borough should get used to it. Photo shows truckloads of Brooklynites returning to their homes over Brooklyn Bridge.



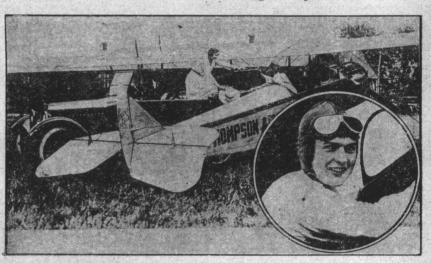
Miss Jane Hannigan, aged one year and five months, beside the silver loving cup awarded her as Grand Prize at Annual Baby Pa-rade and Carnival at Asbury Park, New Jersey.



Miss Jane Gregory, daughter of Former Attorney General, who has been awarded the Order of Queen Elizabeth for her aid to Belgian Orphans.



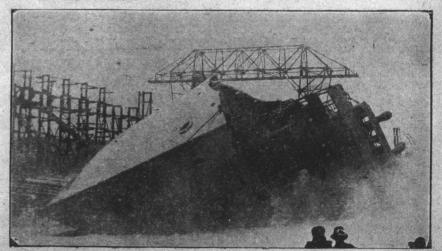
Italy's Big Dirigible Passenger Liner.—View of passenger gondola of the Huge New Dirigible Air Liner which makes regular trips with pas-sengers from Milan, Italy, to various Italian cities. It has proved a big success.



Miss Aileen Stanley, the first actress to make the trip to the stage door via the air route. She flew Sixty Miles and reached Detroit just in time for her act.



Billions in U. S. Army Supplies Sold to France.—Birdseye View of small section of the huge American Material Camp at Montier Chaume, in France, which contains billions of dollars worth of army material of every kind, from flavoring extracts to automobiles, trucks, guns and ammunition made surplus by unexpected ending of the war.



The "Lake Fugard," tipped to extraordinary angle of 73.8 degrees and in less than seven seconds, aided by rebounding waters in narrow slip, miraculously righted herself. A ship usually capsizes if it tips to an angle of sixty degrees.



For more than fifty years, Perkins Windmills have been recognized in America and all over the world as the cheapest, most reliable and efficient means of pumping water. Cost nothing to operate and they'll serve you faithfully and well for from twentyfive to forty years. Some Perkins mills have delivered dependable daily service for even longer.



Get This Catalog Write for free Catalog No. 42 Shows the Per-kins line and tells you how to save money pumping water on your place.

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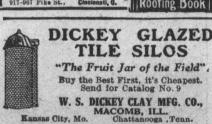
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| Pr                        | rice. | Price. |
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| Press, Grand Rapids       | 5.00  | 4.50   |
| News, Grand Rapids        | 5.00  | 4.50   |
| News-Courier, Saginaw     | 5.00  | 4.50   |
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| News, Cadillac            | 4.00  | 3.50   |
| Enquirer, Battle Creek    | 5.00  | 4.50   |
| Evening News, Monroe      | 4.00  | 3.50   |
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BARRELS FOR SALE Also whiskey and wine half-barrels and kegs. Krell Brothers, 12th & Antoinette St., Detroit, Mich

# Vegetable Growers' Association

(Continued from page 350).

ing our products, and along comes an operative work is that of saving the other great branch of our government farmer in buying. We figure that if and says 'hands up, and put up \$5,000 he can save that way he will be more bond or go to jail.' In selling market ready to answer the nation's call and garden crops four men can do the raise more food crops, when he sees work of thirty, leaving the other twen- that he can do it at a profit. In our ty-six to go home and produce more. efforts to buy grains and mill feeds When asked what effect it would have we have been up against the competion the prices of vegetables on the To- tion of local dealers, manufacturers of ledo market if this organization was mixed feeds and by-products, speculatdissolved, the largest independent ors and other interests that control grower of vegetables in our district the grain trade, but we propose to growers to such an extent that pro- one of the best experts in the country of the independent growers have stood why the farmers should support one by us through these court proceed-hundred men to do the work of one factor in keeping down prices and sta- in all of our dealings with the farm-bilizing the industry in that district." ers, and we believe that these savings

said in regard to the county agent make. 'What can one man do in a Hampden has been found that it pays. Our work invested. in helping growers market their prod- "We cannot successfully market

zation when the local buyer is paying friends in the northwest." the same price?' Our farm bureaus are doing a grand work but they are are doing a grand work but they are handicapped because they cannot aid the farmers in entering into collective ers when it comes to mating his herds and flocks. bargaining.

ciency in producing, grading and sell- "One of the big factors in our cotestified that it would discourage the meet them on even grounds by hiring duction would fall off and prices would to look after that branch of our assorise higher as a consequence. Some ciation work. Is there any reason ings, and they feel that we are a big good man? We are making savings Howard W. Selby, of Springfield, will do much to increase the produc-Mass., had for his subject, "Coopera- tion of farm products in New England. tion in New England," which he hand- Our organization is bringing in better led as follows: "In order to give you grain and mill feeds and the farmers a clear idea of the way cooperation realize that the independent dealers has developed in New England it will are now being forced to do the same be necessary for me to go back about thing. Feed dealers who sell to us six years and tell you about how the are being threatened with boycott by people of that region have cooperated dealers and manufacturers, but we are to the end that agriculture might pros- still able to buy feeds, and expect to per. In the first place, the business develop this end of our business to men have given hearty cooperation to such proportions that we will not sufthe farm bureau movement. Taking fer in the least from any competition the viewpoint of a business man, who or threats the big grain interests can

"We also hope to develop the live county?' So there developed the stock shipping associations so that we County Improvement will be able to pay for an animal as League, which employs from ten to soon as it is delivered, the same as is fifteen men to look after the agricul- the case in the live stock producing tural affairs of that county. And as states. Then we will feel that the this work has been going on in the \$35,000 we are offering in prize money New England states where the agri- to breeders of beef cattle at our Eastcultural possibilities are so limited it ern States Exposition has been well-

ucts in the industrial centers without some of our products because the dealwaste in transportation and distribu- ers charge such unreasonable prices tion charges has helped the growers that the consumers cannot afford them. to develop their business and corre- This is one of the factors which is late their interests. One business man making it discouraging to the farmers. said regarding the falling off in the Your potato men tell us that they are number of dairy cows in Massachu-shipping potatoes to New England. setts that we could send to New Hamp- We are shipping potatoes to Chicago, shire and Vermont for our milk, but which goes to show that we are cross a survey that we made of those two ing our wires, and our producers and states showed a marked falling off in consumers are spending some of their the number of cows being milked. Af- good money for transportation chargter we made a report of the survey to es that more efficient business manhim he agreed that something must agement would eliminate. We are be done to stimulate an interest in planning to market eight hundred dairying and cause our farmers to see cars of potatoes, eight hundred cars the profits. As a result of making a of hay and a large volume of other careful study of the dairy situation products. Here is one of the obstacles in New England we prevailed upon we have to contend with: The United the officers of the National Dairy States Crop Estimates told us that Show to come to Springfield, and near-there were 250,000 tons of hay to be ly a million dollars was spent in hous- sold from New England last year; ing it. Our business men are seeing while from other sources we found the need of upbuilding our agriculture that there were 250,000 tons of hay and such efforts have led up to the shipped into New England from the development of the Eastern States Ex- west. Our big effort is to correct such position. We found along in our work evils of distribution and stabilize conthe need of cooperating, the same as ditions and prices so that the comyou men in Michigan have found. We modities we are buying and selling are following a principle there some. may have a more economical distribuwhat different than you in other 10- tion and stable market, for we believe that is a part of any sound program "The failure of local organizations to make agriculture profitable. We are as we analyzed it has been due to the educating our bankers to the import-fact that many managers have been ance of agriculture as a basic indusengaged on half-time, and no man can try, and have established a credit of be a great success when he is making \$500,000 with a bank account of \$50, a plaything or side line of your business. Many organizations have not been financed properly to secure the full adventage of the firms with which we are dealing asks for a selection. full advantages of cooperation in buy- ing asks for a report on our credit he ing. In selling many farmers follow is informed that it is A-1 up to one-half the lines of least resistance by going million dollars. In our work we are to their fellowmen and saying, 'Why copying the ideas of big business and should we sell the cooperative organi- not fighting big business like our

(Continued next week).

# Nation-Wide Survey of Rural Churches

survey of religious conditions that is center, village, hamlet, town, the bouncertain to throw new light also upon daries of each church's territory and the special problems of the farmer and the situation of every farm house in the farm community.

tion is to ascertain the whole truth as every social purpose they can subto the country church and particularly serve. the extent to which it is meeting its obligations and opportunities in its own community. What it can do to take a larger share in the everyday life of the people and how it may assume a just proportion of all the civic burdens of its constituency are to be determined when all the facts are at

Actual collection of information has been assigned in each of three thousand counties to residents familiar with local conditions. Their findings are to be examined by all the denominational interests of the county in special conferences called for the purpose. These will come to every possible agreement as to programs of local work. Although the data will be certified afterwards for review by the state and national interdenominational conferences, local self-determination will be the basis of action in each instance.

The Interchurch World Movement in itself is simply a working plan in- is gone-completely gone." tended to afford a means of cooperation. It is not an enterprise for organic church union and does not concern itself with matters of creed or doctrine. It is an outgrowth of the great denominational movements of the last few years.

The necessity of inter-denominational cooperation is apparent. The need is for an arrangement whereby each church agency can continue its particular work with its own funds and methods, so coordinating its plans with those of all the others that duplication and waste might be eliminated. The Interchurch World Movement is the logical outcome. Already its endorsers represent seventy-six denominations with 200,000 churches and a constituency of 50,000,000 souls.

Each rural survey has in mind two things, the individual church and the examined as to the nature, number, date for county commissioner filed his ages, sex, welfare and occupation of statement of campaign expenditures its members, the extent of its pastoral as by law required, which contained lation to all other churches, to grang- items: Lost 1,349 hours of sleep es, and lodges, and its physical sur-thinking about the election. Lost two roundings, such as roads, railroads, front teeth and a whole lot of hair in trolley lines, etc. The community is a personal encounter with an opponexamined as to its population, trade ent. Donated one beef, four shoats territory, social environments, etc.

An interchurch cooperative organi- every road, railroad, trolley line, zation is conducting a nation-wide church, school, lodge, grange, social relation to some church or social cen-The broad purpose of the investiga- ter. These maps will be available for

# "By the Way"

#### EASY.

Smart Alec, at the butcher's-"Can you give me a yard of pork?" The Smart Butcher-"Certainly,

here are three pig's feet."

Johnny De Tar-"My aunt's gave me some camel's hair underwear for Xmas. What am I going to do with them?"

Ed Toupalik-"Gee! You ought to be tickled to death."

#### WHAT ELSE COULD HAPPEN?

"This is a very sad case, very sad indeed," said the doctor. "I much regret to tell you that your wife's mind

'I'm not a bit surprised," answered the husband. "She has been giving me a piece of it every day for the last fifteen years."

wonder where the step ladder "Willie had it last?"

"Then it must be in the pantry."

#### WANTED-BY BOOB MCNUTT.

A shoe for the foot of a mountain. Lips for the mouth of a river. Glasses for the eyes of a potato. A collar for the neck of a bottle. dress for the body of a letter. Medicine to make the ink well. Words for the tongue of a shoe.

### RUNNING FOR OFFICE.

Don't let your husband run for ofseparate community. The church is fice. Away down in Georgia a candiinfluence, its financial methods, its re- among other things the following and five sheep to a county barbecue. When complete, it is expected that Gave away two pairs of suspenders, maps may be drawn of every rural four calico dresses, \$5 cash and thircounty in the United States, showing teen baby rattles. Kissed 126 babies. Kindled fourteen kitchen fires. Put up four stoves. Walked 4,076 miles. Shook hands with 9,508 persons. Told 10,101 lies and talked enough to make in print 1,000 volumes. Attended sixteen revival meetings and was baptized four different times by immersion and twice some other way. Contributed \$50 to foreign missions and made love to nine grass widows. Hugged forty-nine old maids. Got dog-bit thirty-nine times and was defeated.





# Don't Put Up Your Stoves This Fall

It's a tough job and you hate it—wrestling with the stove, juggling the pipe, dirtying up your floors—and when it's all done the sure prospect of stuffy rooms, chilly corners and the daily drudgery of cleaning up the litter of fuel and ashes. Don't do it again—end the annoyance once for all by installing a all by installing a

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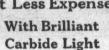
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WA FNGINES



# A Real Community Church

By Paul H. Smith

sick during the week and it was habit? evident that he would not be able to their day of rest in church.

This church trustee realized the valhe called on his neighbor, Mr. Brown, ly, we are working individually in busa young man who was making a suc- iness, we don't stick together. Look cess of farming, and asked him to give at our Cooperative Association. a talk on "System in Farming," at organized with one hundred members, the Sunday morning service. After hired a manager, let him run the busconsiderable persuasion Mr. Brown iness, sold our potatoes wherever we consented to do this and word was thought we could get the most, and spread through the community that then cussed our manager because the the pastor was sick but that services membership fell off. would be held and Mr. Brown would "That's just the way we are trying give an address.

mas exercises.

The faithful trustee who had per- being. suaded Mr. Brown to address the conhymn No. 102 in the church hymnal, and asked Elder Swanson to lead in a word of prayer, followed by the Lord's Prayer repeated in unison. This was followed by an anthem from the choir. were read by Mrs. Jones, president of the Ladies' Aid Society.

The trustee then addressed the conance in spite of the pastor's absence. leave us alone: Mr. Brown was then presented and "Now, what is the matter with us points of his outline.

He looked at his watch and then at "But do we know whether it is or remember, but it We r of the Sundays you are helping me the money they get. keep the fish and rabbits from becom- "What is the remedy and where ing too numerous. And why?

nary life are not harmonious? Is it got to change ours? because the preacher does not make "I believe that we have both got to

HE pastor of a rural church in his sermons interesting enough, or is northern Michigan was taken it just because we get out of the

"Friends, it isn't the habit; we'd conduct the usual service on Sunday have the habit all right if we had the morning. His wife notified one of the inclination; it isn't the preacher's serchurch trustees and left it to him to mons, the best speechmaker in the spread the word among those who state couldn't do any better than our were accustomed to spend part of present pastor, working under the same conditions.

"And Christianity harmonizes perue of community gatherings and in- fectly with ordinary life, if we'd only stead of notifying the usual church go- let it. The trouble is, neighbors, we ers that there would be no services, are all working and living individual-

to conduct our church, we or rather Now it was commonly known that our wives, have hired a man to come Mr. Brown and some of his friends in here as our pastor and what do we had been seen on numerous Sunday do to help him? We hike for the corn mornings driving his car toward a cer-field or the back pasture fot if we see tain lake, fish poles tied on the side him coming on a week day, and if he of the car. To be informed that he does slip up on us sometime when we was to address the Sunday morning don't see him quick enough, we swalchurch goers, was indeed interesting, low a perfectly good cud of tobacco, On Sunday morning instead of the or burn a hole in our pants pocket faithful fifteen regular attendants, the with a lighted pipe. We won't accept church was full. They even had to him into our lives. We think his stantake out the folding chairs, that had dard of living is idealistic, and we feel not been disturbed since the Christ- that he is among us more as a reformer than as an ordinary human

"What are we paying this pastor for gregation took charge of the service. anyway? Are we paying him to re-He asked the choir to lead in singing form us? If so, why don't we reform once in a while, so as to get some value out of our money? Are we paying him to be a living example of what we ought to be? Or are we paying him to interpret somebody else's vis-The notices for meetings for the week ion of what life ought to be? Do we ever stop to think? No. We don't like to think. We are paying our twenty-five or fifty cents a week into gregation very briefly explaining their the church treasury and consider that sorrow on account of their pastor's money gone. We are willing to give illness and his pleasure in the attend- that much if the preacher will just

gave in a somewhat crude manner of anyway? Why do we continue to pay delivery, his system of farming. He for this man that we don't want had prepared the outline of this speech around? Well, I'll tell you the excuse beforehand, and while it had taken we give ourselves. We think that him half an hour to deliver it to his whether we accept him into our lives cows while he was milking that morn- or not he has a certain influence over ing, now that he was before this un the community, that tends to make expectedly large audience, at the end some of the people a little better so of ten minutes he had covered all the that maybe the money is helping the morals of the community.

the assembly of neighbors before him. not? No. Because we think our duty "Friends," he said, "That is all of my is done when we pay over the money. ver think of even asking how isn't all I have got to say. The most much the weekly contributions amount of you came here out of curiosity, to to, and whether this man that we are see what I'd look like standing here paying to make the community better in a church pulpit. You come and lis- is getting enough to live on or not. ten to the preacher once or twice a We leave that to the church trustees, year to please your wife and the rest and they do the best they can with

have we got to begin? Has the preach-"Is it because Christianity and ordi- er got to change his ways or have we

change our ways to a certain extent. The change has got to be in our attitude toward him and in the form of tervice which he is going to perform for us. First, we must accept our preacher as a leader in organization work for the community, and he must act as a leader, not only of church organizations but of every form of rural clubs and associations in which we are interested.

"We farmers are just beginning to realize the value of our county agricultural agent as a leader in rural organization work, and the more we realize his value the more we see the need of local leadership along the same line.

"I ask you, would it be lowering the standard or morale of our church work, if we asked our preacher to act in the capacity of a leader in the organization of say, a cow-testing association? Or a boys' and girls' calf club? If our religion and daily activities won't mix to that extent, then it is about time we found the reason. We can't make this change all in a minute; some of you are going to hold up your hands in holy horror the first time you see us fellows puffing our corncob pipes and blowing smoke in the preacher's face, while he explains to us the plan of organization of a stock shipping association.

"Maybe lots of things we do in our daily life are sins, maybe we ought not to smoke, maybe we ought not to go fishing Sunday afternoons. But I don't believe many of us will change our views by being preached to, especially if those of us that are the worst offenders won't come and listen to the preacher. Our business, social and religious organizations must be so closely allied that each is dependent on the other.

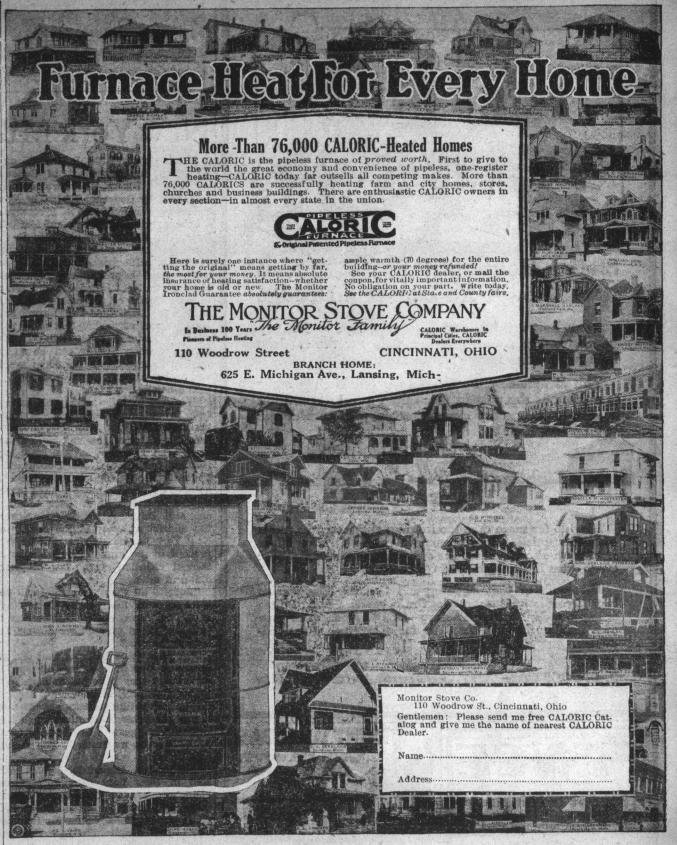
"Now, then, how are we going to start? We can't do it, by simply talking about it. We've got to get together and work as a community and forget some of our individualistic ideas. I'll suggest that next Sunday morning we meet here as we have met today, not just the supporters of the church but every farmer in the community and let's elect a chairman to head the various phases of our business, social and religious enterprises, and then hire our preacher as sort of a community agent to act as secretary and assistant to these chairmen. I offer this as a suggestion and will leave it to the judgment of the church trustees.

"I've said a lot more than I intended to when I came here, and I hope that I have not offended the religious views of any.

"I've told you in my crude way what I think is the matter with our community, and you can take or pass my suggestions as you see fit."

The meeting was dismissed and all went home feeling a little keener interest in the affairs of the community. The trustees were called together the next night at the preacher's home to discuss the feasibility of Mr. Brown's suggestions.





#### HOGS

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# New York Milk Investigation

appointed by Governor Smith, of New reformation." York, as a committee to investigate In urging that attention be given prithe Department of Foods and Markets marily to the system and cost of disunder the Morley act, and also to in- tribution, the report says: quire into the causes of the high cost sons be assigned to this duty. Mr. the farmer receives." George Gordon Battle has been ap. The committee recommends that the and he has already begun work.

The committee says:

1916, and from present indications it mittee should fix a price to the concoming winter."

demand for milk products, but the fair- of such cities. prices to the maximum. The report which would make it possible for the further says:

"On Friday, August 22, bottled milk the distribution and sale of milk: sold in New Yory city for sixteen cents a quart, in Chicago for fifteen Milk Commission to regulate the milk cents, in Boston for fifteen and a half distribution business in cities of the cents and in Philadelphia for fourteen first and second class. cents—this despite the fact that the 2. That all milk distributors in cit-

the New York City market. that is, approximately 880,000 quarts the investment. of bottled milk are sold in New York 4. That the proposed commission be Philadelphia, which is fourteen cents systems by all distributing agencies in a quart, and that in New York City, first and second class cities, and to hich is sixteen cents a quart, means inspect and audit such accounts that the people in New York, in a year time. ple of Boston.

York City than it does in Boston, Phil- vately owned distributing systems. adelphia or Chicago, but a milk system 6. That all municipalities of the that costs the people of the City of state be authorized to acquire and op-New York comparatively \$6,000,000 a erate milk distributing systems within year more than it costs the people of their boundaries when such acquisi-Philadelphia and \$3,000,000 more than

ORMER GOVERNOR GLYNN and it costs the people of Chicago, and \$1, State Superintendent of Schools 000,000 more than it costs the people John H. Finley, who were recently of Boston, needs either explanation or

"So far as we are able to determine, of living, with special reference to the farmer, the producer, is not receivmilk, issued a preliminary report on ing an exorbitant price for his milk; the milk problem last week, and asked indeed, he seems not to have his fair to be relieved of the task of investi- share of the selling price, for the cost gating the Department of Farms and of bottled milk to the consumer is ap-Markets, and suggested that other per- proximately 100 per cent beyond what

pointed to investigate the department, governor urge the attorney-general of the United States to prosecute all violations of the interstate commerce act, 'We find that the milk problem has in the states contributing to the New been investigated and investigated and York milk supply, and also that he reinvestigated. The Attorney-General of quire all county district attorneys to the United States, the New York Coun-prosecute violations of existing laws ty District Attorney, several state leg- within their respective districts; but it islative committees, Mr. Hoover, the places special emphasis for the pres-Federal Food Administrator, and a ent on a suggestion that the governor number of city committees have inves- appoint a fair price committee of nine tigated it, and some of these agencies to establish fair prices between the are still investigating it. Moreover, dealer and consumer in the city of the district attorney of the county of New York. This committee would con-New York has advised us that he will sist of the state commissioner of present to the grand jury evidence of health, the city commissioner of health alleged violation of the law in price- and the city commissioner of markets, three members to be named by the "Despite all these investigations the governor, and three by the mayor of price of milk has rapidly risen since the city. The idea is that this comis likely to go still higher during the sumer after the plan adopted by the federal food authorities during the The committee believes that the in- war, and recently revived for other crease is due in considerable part to food products. The governor should the causes that have led to high food also provide for similar committees prices generally, including the foreign in other cities of the state on request

ly uniform price to consumers in cities If this plan fails the committee recgenerally suggests a tendency to force ommends a tentative legislative plan, state or the municipalities to regulate

1. That there be created a State

average amounts per quart or per hun- ies of the first and second class be redred paid the farmers who supply the quired to secure a license from the Philadelphia, Chicago and Boston mar- proposed commission, and such comkets are, according to reports furnish- mission be authorized to refuse a lied us by the State Department of cense to any distributor who cannot Farms and Markets, somewhat higher establish proof that the business he than those paid the farmers supplying proposed to conduct is of public interest.

What this slight difference in the 3. That the proposed commission price of each quart of milk means to be given full power to regulate the the people of New York City may be rates which shall be charged on milk estimated from the fact that, in round for the service rendered by the distribnumbers, 2,000,000 quarts of milk are uting agencies, and to limit the profits daily consumed in New York City. Of of such agencies to what it may deem this, forty-four per cent is bottled, to be a fair and reasonable return on

City daily. This difference between given full authority to require the inthe selling price of bottled milk in stallation of uniform cost accounting

would pay \$6,424,000 more than the 5. That the commission aid and aspeople of Philadelphia for the same sist all municipalities desiring to esamount of bottled milk; and \$3,212,000 tablish municipally owned distribution a year more than the people of Chica- of milk, and act as an advisory board go; and \$1,106,000 more than the peo and be in position to recommend the most effective method to be used in es-"Undoubtedly, it costs more to do tablishing municipal distribution of business and to distribute milk in New milk, including the acquisition of pri-

(Continued on page 362).

#### FALL DAIRY OBSERVATIONS.

BEFORE allowing the cows to begin on the course gin on the accumulation of the season's crops, why not know if they are the kind of cows that can pay their board. Many farmers lose money in the dairy business by spending most of the year in growing feed to be used for a herd that is not producing a paying amount of milk.

But be sure that there is nothing wrong with the method of housing and feeding the cows before they are discarded as boarders that do not pay their bills. Much depends on the owner of the cows and sometimes good cows produce much less than they should because they are given poor

The Holstein cows which received the fraudulent records were given about as mean a deal as man can give an animal. Their, reputations smirched when they were doing their best. However, it will not injure the honest breeders because they have good cows that produce profitably and the great Holstein breed is strongly enough intrenched with hard working farmers to enable them to stand the shock. Possibly it will be for the best in the end and wake up breeders to the foolishness of cramming an animal for seven days solely for the purpose of making a good record for advertising regardless of whether the milk was produced at a profit or not.

Cows are often considered machines which can be stuffed with raw materials without limit and then produce a finished product to which there is also no limit. This is not exactly right. A' machine is without life and feeling but a cow is an animal with a highly developed nervous temperament that responds or fails to respond, according to the treatment received. That is why some farmers do so much better with cows than other farmers. The successful breeders study their cows as individuals and try to keep them contented and satisfied and free from abuse. They know that there is more to dairy management than "stuffing the machine."

Shouting around the stables will disturb cows and reduce the flow of milk. A dog that is not well trained will bring the cattle to the barn on the run or worry them all the way from the field. This is not good for milk production. During the fly season cows will kick even though their disposition is gentle and nothing is gained by massaging the poor animal with the milk stool to make her stand still. The cow that is not afraid of her master but respects him is apt to be the gentle kind of a cow which does not kick or bunt but comes quietly to the barn and stands patiently in her position during the process of milking.

Many dairymen received their first desire to own good cows by visiting the fairs and stock shows. The farmer who seldom sees good stock is apt to become thoroughly satisfied with his own cows and so neglects to make an effort at improvement. After a visit to a good fair the picture of cows of fine type will remain. Then it is only a step to the desire for better cows on the home farm.

A start with pure-bred cows is more a matter of time than money. If there WORTH A BIG FARM is a registered bull in the neighbor-Bale your own and neighbors' hay; 100 hand the nurchase of one nure-bred days work earns \$1000 to \$2000 a season with the heifer will enable a farmer to start a pure-bred herd if he has patience. As the progeny of this heifer increase and reach the milking age the grade cows can be gradually sold. Soon the farmer finds that he is on the road to the pure-bred stock business, although the investment has been a very few hundred dollars. Just think of the things that you might have done ten years ago and realize what they might mean now. Then think of the things that you would like to have ten years from now and remember that now is the (Continued on page 363).

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1,000,000 ROLLS Write for Free Sample Catalog of 87 new designs and colorings. CROII Why use Paint when 52c will paper Room 12 x 14, 9 ft. high Martin Rosenberger, SII RACE STREET in which there are excellent columns There are many tomatoes and no

# Woman's Interests

# Your State Farm Bureau

reau organization has an active we read the following: home economics department. It "No question is of greater import-

ference, Miss Binzel, a specialist in and comfort." kindergarten work, told of many perown plane.

babies without thought for their dis- dishes. positional training. Some states are Invitations to have the party call to the students who are to be the future yard for lunch together. mothers and leaders.

little ones, visit libraries to find the edge shared by all. best ones, ask experienced mothers to young mothers that Miss Binzel, vice- about it. president of the International Kindergarten Union. mentioned was "Play in the First Eight Years," by Luella Palmer, Supervisor of Kindergartens in New York City. This can be ordered by any book dealer.

When we see a plant that shows signs of having taken root and growing, there is a thrill of satisfaction that it is lasting. Thus comes a letter from a young leader in a club. "We had such a good meeting of the Study Club this week. It certainly showed home spirit all right. I read a paper which I have enclosed to you. Home Economic experiences were given by everyone as response to roll- more practical side of life once more. call; just common everyday things We have had a pleasant time, a rest, which count so much for the house- both physical and mental, and are now wife. A splendid paper on the 'Coun- enthusiastic to get things going at try Church,' and another, 'The Coun-home. If for some reason you have try School as a Community Center, been detained from taking your vaca-

to follow out. I should like to get the days will revive you after the sumbook on 'Household Engineering' to mer's heat, and a few days away from circulate in the club. Have you any the ordinary will add to your fortune. more of those 'Outlines' for such Some of us are regretting that our workers to follow?"

HE Michigan State Farm Bu- for the benefit of the homes. In one

under the leadership of Flora C. ance to the family than the farm's Buell, of Ann Arbor, who sends in the water supply and the disposal of its following notes. They will suggest to sewage. The prospective builder readers a little of the valuable ser-should make certain that these probvice that an efficient organization of lems are solved before he does anythis character can be to home-makers. thing else, for they lie at the founda-At a recent Home Economics Con-tion of the entire household's health

#### Meetings on Wheels.

sonal experiences when parents did Why not have a "Home Convennot deal with their children as if they ience" tour? Invite the neighbors to were human beings. They were toys, bring their picnic baskets and gather to be played with for amusement, dolls for a ride about the community, stopto be prettily decked, but not chil-ping at homes that have been listed dren, to be studied with a real inter- for their inspection. The leader should est. They are made nervous wrecks search out such things as a good waat two years, and their natures are of- ter system, a disposal plant, a selften permanently marred by being per- made electric lighting plant, an acetymitted to tease, dictate, or to disobey. lene gas machine, a kerosene stove, a The old methods of discipline and power washer, a fireless cooker, a breaking a child's will have too often churn and other articles run by a gasgiven place to the other extreme, in-oline engine, a vacuum cleaner and stead of dealing with him as a devel- easy means of cleaning the rugs and oping being, and meeting him on his floor, a steam cooker, a step-saving kitchen, a bread mixer, or a collection We have been giving much atten of small implements for cleaning of tion to the physical welfare of the fruits and vegetables, and for washing

recognizing this subject as of vital im- inspect the special scheme at each portance in a course of study for home home, may be secured, and the hostmakers, and are including a short ser- esses asked to present the advantages ies of carefully prepared lectures for derived. Stop at a grove or shady

Some of the points to be gained: Mothers who will never be within 1. Opportunities to see and hear college halls need it just as much, and about the improvements made by the it is for the Home Economic leaders neighbors. 2. Discussion along the way of the farm bureau to bring to them as to other methods. 3. Stimulates the best available helps along this pride in an improved possession. 4. line. Circulate magazines and books Arouses a desire to keep in step with having to do with the training of the others in gaining benefits. 5. Knowl-

Any local woman's organization prepare papers and help in the dis- might use this suggestion for one of cussion. Among many good books for its meetings. Try it and let us hear



SOMETHING YET TO DO.

HE ringing of the school bell brought us all in from our vacations and our minds back to the ere given. tion it is not too late to make arrange"Our club needs materials and ideas ments to do so. The cool September

vacations came just at the time that Strength and power are added to canning should have been done at every organization where the mem- home. One hears talk about hoarding, bers themselves seek, prepare and pre- but this sort of hoarding is admired sent the topics. Abundant material by our government rather than frownin simple form, free and inexpensive, ed at. You still have a chance to do

end of ways in which they may be Put up some for soup this year and don't forget those good tomato preserves that grandmother used to make. It is easy to make and the children will certainly enjoy some preserve in their lunch box or a big slice of bread and tomato preserve when they get home from school. Try adding an orange or lemon or both to this preserve and see if you do not think it is an improvement.

If you are unable to get citron, try making watermelon preserves.

There are many kinds of pickles, both sweet and sour, which may be made this fall. Perhaps the small canning pickles can not be found in the markets now but the large ones make good pickles. Then try sweet pickled carrots; they will be new and different and there is not a vegetable that grows that is considered more health-Pickled onions are a delicacy; the small ones from seed sown this year are the best. As a guest at a hotel recently where invalids were housed and fed, it was a surprise to find that onions were served in four different dishes at that meal. The onion is too often left out of our diet.

It is hardly practical for the farmer's wife to can pumpkin, squash, carrots and some of the other tuber vegetables, but the city woman does not as a rule have as good a fruit pit or cellar for storing these things.

The canning of meats and chicken is practical, as they may be canned when the weather is cold or feed high, and when the open weather comes you have your meat stored away safely in the cellar. Complete directions may be had from the Department of Agriculture, Division of Publications, at Washington, D. C., or from the Home Demonstration Agent or County Agricultural Agent. Watch for canning demonstrations and suggestions at your county fair this year.

Another thought about canning that perhaps some of us have never given consideration is the community canning center. In some localities a community canning center has been established which has proven a great help to the busy housewife. Many times an unavoidable call from duty leaves something to spoil; where one of the canning centers is in operation the fruit or vegetable may be taken together with the cans and other material, and the product is saved. A small fee is usually charged to cover expenses. The girls do the work simply for the experience it gives them. They usually work in teams under a competent supervisor. Think about this and if there is not a canning center in your community this year plan to have one next year. Much good can be ac complished by such cooperation.

### HOME QUERIES.

Household Editor.—Please tell me how to put up sour pickles so that they will last long.—Reader.

There are two ways of putting up sour pickles by either of which they should keep indefinitely. To pickle cold: Wash the cucumbers carefully, rubbing off all the little black spots. Pack in fruit jars and cover with vinegar to which has been added one teaspoon of salt and one-fourth teaspoon of cayenne pepper to each jar. This method is given by Everywoman's Canning Book. To can hot: Let the cucumbers soak over night in a brine made with one cup of salt for every peck of cucumbers and cold water to cover. Of course, wash pickles first. In the morning pour off brine, scald and pour over the pickles. Let stand another twenty-four hours. Then drain, pack in jars, and cover with vinegar scalded with three or four peppers cut in strips and a bit of horseradish. If the cucumbers can not be pickled as soon as picked let stand in a brine, cover with a horseradish leaf, and weight down to keep under the brine.

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rial for a four-year size. The cap re- 3½ yards of 36-inch material. quires 1¼ yards of 24-inch material. 10 cents.

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No. 2960-Girls' Dress. Cut in four sizes, 6, 8, 10 and 12 years. Size 10 will require 2% yards of 44-inch material. Price 10c. Size 10

No. 2966-Girls' Dress. Cut in four sizes, 8, 10, 12 and 14 years. Size 12 requires 3% yards of 40-inch material.



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No. 2790—Dress for Misses and Small Women. Cut in three sizes, 16, 18 and 20 years. Size 18 requires five requires 5% yards of 44-inch material. Width of skirt at lower edge is about 1½ yards.

No. 2774—Ladies' House Dress. Cut in seven sizes, 34, 36, 38, 40, 42, 44 and 46 inches, bust measure. Size 38 will require 5% yards of 44-inch material. The dress measures about 2¼ yards at skirt at lower edge is about 1½ yards.

Price 10c.



No. 2963—A Smart Gown. Cut in three sizes, 16, 18 and 20 years. Size 18 will require 5% yards of 36-inch material. Price 10c.

No. 2809-Ladies' Dress. Cut in sev en sizes, 34, 36, 38, 40, 42, 44 and 46 inches, bust measure. Size 38 will require six yards of 44-inch material. Width of skirt at lower edge is about two yards, with plaits extended. Price



No. 2942—Boys' Play Suit. Cut in four sizes, 2, 3, 4 and 5 years. Size four requires 1% yards of 27-inch material. Price 10c.

No. 2813-Girls' Dress. Cut in five sizes, 2, 4, 6, 8 and 10 years. Size six will requires 2% yards of 36-inch material. Price 10c.

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# Our Boys' and Girls' Page

# Young Folks as Letter Writers

By Edgar L. Vincent

answer every letter I send you."

medium of pen and ink. We smile drop them in the stove.

WRITE to us when you get out ter how great the provocation. For there. You will, won't you?" letters carry words that endure. More "I sure will; and you must than once temptation of that kind has come to me, and I have thought after So the greetings go every day. Un- I had written my letter of resentment cle Sam's sacks are crowded with let- that I had done something that would ters seven days in the week, coming bring me great peace of mind. But aland going across the country, yes, and ways whenever I have sent such a letround the world. Business letters, let- ter, as I have a few times in my life, ters of friendship and deeper affection I have suffered for it far more than did and letters that can scarcely be said the one to whom I wrote. So that of to have any purpose, save to while late years it has been my custom nevaway the spare moments of those who er to write a letter of that kind, or if write them and those to whom they I did. not to send it until the day afterward. It is wonderful how differ-And every one of these letters has ent your own letters sound to you afits story to tell of the character of ter you have slept over them. Do that those who pen them. This is a thing when you are tempted to send a spitewe sometimes forget when we sit ful letter, and I will venture to say down to talk with one who is far disthat you never will put them in the tant, through the silent yet powerful mail. Far more likely will you be to

when we write some letters, thinking Then, too, you will surely be face to perhaps we may have said a thing face with the task of writing business



Boys Who Attended the Michigan State Fair School,

a letter. Never do it lightly.

to them. One thing is certain. If he ence. is a sensible fellow not many such let- One of the finest purposes to which per the best thoughts she has.

cheer to those who will read it. Young more serious import.

that will help us to "get even" with letters sooner or later. It is a good the one who will read it; but he plan to be very careful about such does not smile. His heart may be bit-communications. Be kindly courteous, ter from the day when he receives the but do not commit yourself to anyletter you wrote with so much satis- thing you do not mean. A single word faction. It is a serious matter to write may be misinterpreted. Therefore it is well to weigh one's words carefully. It happened that I saw some letters See that they mean just what you written by a girl to one of her boy wish them to mean. It is well to write friends in college. You would think what you have to say on a separate one who was enjoying the privilege of piece of paper and then read it over getting a good education would of all and see if it is just as you intend it to persons be most choice of her words be. Take great pains in the choice of and say only the things which would your words. It may be the letter you help and make happy. But those let- write will gain friends for you and ters were packed full of slang. Very stand you in good stead in the day little of good commonsense could be when you need help. Your letter writfound in them. I could not help won- ten to your satisfaction, keep a copy dering what sort of an answer the boy of it, in case it bears upon a subject who received the letters would make that will lead to future correspond-

ters will come to him from that girl, letter writing can be put is that of He will stop corresponding with her conveying messages of congratulation and seek some girl who thinks enough for some good fortune, or words of of her good name to put down on pa-sorrow for trouble sustained by another. I do not know what I would do Now, I do not mean that one never were it not for these letters. They should write anything but staid, mat-come to me from far and near, from ter of fact letters. A bright, cheery those I never have seen and never will letter, full of wit of the right kind, see in this world. Some of them tell telling of the every-day matters of life me of help that has come from some may bring rest, happiness and good word I have written. Others seek advice of one kind or another. These letfolks are naturally happy hearted and ters I cherish, especially those from their letters may partake of their na- young folks. They are a bright spot ture. Everybody likes to get a letter in my life. No one can measure the from a cheery, happy hearted girl or value of letters of this kind, letters of boy. But with the sparkling words hope, of encouragement, of good cheer there may well be mingled some of generally, and I would be glad to know that everyone of the boys and girls Some day or other you will be tempt- who read what I am now writing were ed to write a letter that will rankle in led to begin now to send letters of this the heart of the one who reads it. It kind. It is a help to character building.

may be he has really injured your feel. In fact, every word we set down on ings. You may have a real grievance paper in a way that we may never be against him. But think a long time able to explain has its bearing upon We cannot rise from writing a letter just the same persons we were before. Either we will be better or worse for what we have done.

Just a word now as to the tools we work with in letter writing. Good paper helps to make writing a pleasure. Thoughts flow better when we have such paper and a good pen. Even good ink has its bearing upon our work. Some day I hope every farm home will have a typewriter. Good ones may be had now for a reasonable price and it is an excellent thing for all, young and old, to know how to operate such a machine. Whatever way you may take for writing, write only good, sensible, helpful letters, and they will bring you a blessing.

SON SHOWS FATHER HOW TO PLAY PURE-BRED GAME.

DAVID COWLING, farmer lad residing a few miles north of Oshkosh, Wis., just "teased and teased" his father, George Cowling, to buy him a pure-bred heifer or two. Mr. Cowling gave his boy some money and told him to go ahead; the animals were priced and they seemed so high that even the youth grew timid.

One day father and son came home with three heifer calves bought at prices which seemed like a lot to pay for full-grown animals. A day or two later another one was purchased. The four calves cost \$425.

Dave was determined to have purebred methods as well as pure-bred stock. The grain had to be bought and the cost per month kept increasing. The young animals ate about \$150 worth of extra feed during the first year they made their headquarters in the Cowling barns.

Refuses to Sell.

One day a shrewd cattle buyer offered Dave \$1,000 for his four heifers, which had cost not more than \$600, including their original cost and their feed. Dave took the offer under consideration, refusing to sell at once.

Next day father and son started out once more to see if they could not replace their yearlings for less than \$1,000. But when they came to price them they found that they could not buy yearlings of equal breeding for less than \$325 to \$350 each, and those offered did not look as well fed as the animals Dave had tended so carefully. So the Cowlings came home with three more calves, for which Mr. Cowling paid even higher prices than had been necessary a year ago.

Father Convinced.

"Dave has got to feed them all just that way as long as I have my say," said the father; "just to see what he has done, his heifers are grown, while the heifers I started with won't be ready for another year. He will be a full year ahead of me in getting results in milk. The extra feed and extra price for the heifers was a mighty good investment, to say nothing of the value of the animals he has."

# Our Prize Contest

DEAR BOYS AND GIRLS:

Owing to lack of space we are again obliged to leave out the prize letters. Next week we will print the winning letters entitled, "The Best Day of Vacation."

are "The First Day of School," and "My Best Kodak Picture." Be sure and send the picture with this letter, as we may wish to print same.

Sincerely yours, Editor Boys' and Girls' Dept.







Save \$100 or More Now!

Attend the Wayne County Fair at Northville, Mich.

Sept. 24, 25, 26, 27, to pick your Duroc herd boar. Herds of the four leading Duroc breeders in the county will be on exhibition. For details Fair Secretary, Northville, Mich.



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A human interest life history of one of America's most famous men. Theodore Roosevelt made popular the strenuous life and typified the American spirit of intense thought and action. He made good through dogged determination.



Our 400 page book gives intimate insights into his character, his aspirations and his triumphs. It is written by J. Mowbray, the well-known historian and traveler, who had occasion to know Col. Roosevelt well. An inspiring story of an inspiring man. Profusely illustratedhandsomely bound in cloth.

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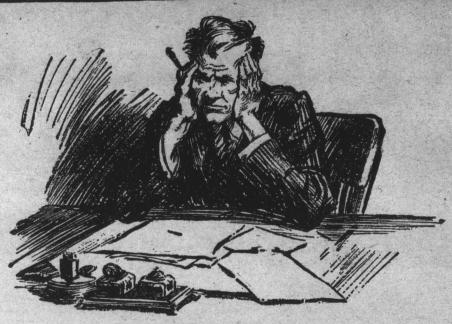
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THE MICHIGAN FARMER DETROIT



# Can an inexperienced man run a billion dollar meat business?

Under the proposed Kenyon bill the packing industry would be placed at the absolute command of a government official who would probably be without practicable experience.

The packers have never been able to hire enough brain executives of life-long experience to do the work and make the decisions this one man would have to make.

This political appointee will have the privilege of experimenting-with other people's money.

He can try out schemes that

may ruin the stock-raising industry-because if the packers suffer, so will the country's livestockmen.

He is to be placed despotically in power over property owned by thousands of stockholders with the owners getting the privilege of paying for the losses that may occur.

Is this fair to a business it has taken fifty years to build up? Fair to thousands of people who have invested their money? Is it safe, too, for the live stock industry to have the business tampered with by an amateur?

# Swift & Company, U.S. A.

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# BSORBINE TRADE MARK REG.U.S. PAT. OFF. will reduce inflamed, swollen Joints, Sprains, Bruises, Soft Bunches; Heals Boils, Poll Evil, Quittor, Fistula and infected sores quickly

as it is a positive antiseptic and germicide. Pleasant to use; does not blister or remove the hair, and you can work the horse. \$2.50 per bottle, delivered. Book 7 R free.

ABSORBINE, JR., the antiseptic liaiment for mankind, reduces Painful, Swollen Veins, Wens, Strains, Bruises; stops pain and inflammation. Price \$1.25 per bottle at dealers or delivered. Will tell you more if you write. Liberal Trial Bottle for 10c in stamps.

W. F. YOUNG, N:., 268 Temple \$1, Springfield, Mass.



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Wise Stockmen Everywhere are TIX-TON Users

To ANTISEPTICS

the year around keep stock healthy and free from disease germs, worms, stock conditioner—saves you big money. stock conditioner—saves you big money.
Send \$2.00 for a box of "TIX TON-MIX" by parcel post. It will medicate a barrel of salt. For hogs, sheep, cattle, horses, and poultry. PARSONS CHEMICAL WORKS, Grand Ledge, Michigan Write for Club Offer Leona Park Farms Experiment Station

IF FEEDING HOGS, YOU NEED THIS FEED

Write to H. CHRYSTAL, Selling Representative, 909 Ford Building, Detroit,

#### SAVING PIECES OF LUMBER.

WHEN we built over our house and barn we had a great many odd pieces of lumber that could not be worked into the building. Some of these were not more than a foot long, say two-by-four, while others were timbers eight inches square and eight or ten feet long, left from the frame of the barn. Many bits of plank and board also came to light during the course of the carpenter work.

There was a temptation to use up a great many of these stray pieces of lumber for kindling, and they would have made good wood; but I made up my mind that we would save them all, so we carried them away and piled them up in a snug heap, the larger timbers at the bottom and crossed up so that the air could circulate through them and keep any from rotting. Over the whole pile I laid some boards, forming a sort of a roof.

It was surprising how handy those pieces of boards and scantling were. Scarcely a day passed that we did not make one or more excursions to it. From those odds and ends I made a good rack for feeding sheep, scarcely any lumber at all besides being necessary. The larger timbers, every one came into play sooner or later. Part of them are now in a milk house, a granary and a henhouse. And they were the means of saving us a good deal of money first and last. The pile is pretty much gone now, and we miss it greatly.

In these days when lumber is so scarce and high in price, not a bit E. L. V. should go to waste.

#### NEW YORK MILK INVESTIGATION.

(Continued from page 356). tion to cities of the first and second commission.

7. That the proposed commission promote cooperation between the producing and distributing elements of the milk industry; that it make from time to time investgiation of the cost of producing milk, and publish for the information of the public data as to volume and cost of production in this state; that it conduct educational campaigns for promoting the wider use of milk as a food and cooperate with municipal health departments and other agencies in making special studies of the need of the greater use of milk in the feeding of children.

8. That the commission make special study of the problem of providing milk at a minimum cost to the children of the poorer sections of the larger cities, and cooperate with the municipal departments of health in providing milk for the feeding of infants at the lowest possible cost.

9. That the commission cooperate with the New York City Department of Health to make a special study of the conditions under which loose milk is sold in the city, and endeavor to eliminate all possible danger of contamination of milk sold in this manner.

10. That the proposed commission be empowered to revoke a dealer's license for due cause after public hearing and after due notice in writing.

11. That any municipality in addition to cities of the first and second erning body of the municipality place itself under the jurisdiction of this commission.

The New York milk problem is also. being investigated by the Federal Department of Justice, by the Federal Trade Commission, and by a special grand jury in the city of New York. In the meantime, Federal Food Commissioner Williams has given out the information that the dealers have reconsidered their announced purpose to again increase prices to the consumer for September, and that no advance will be made.

### HOG PRICE RANGE NARROWS.

FOLLOWING the sharp break in hog prices recently there was a reaction in the market, all grades selling higher with the lower priced offerings showing relatively most gain. Buyers seemed to realize that the plainer grades of hogs were relatively cheap compared with others. The demand increased, causing a stronger price tone. At the same time supplies dwindled.

However, shortly after, the better grades were subject to a decline while cheaper grades held steady. This caused considerable contraction in the price range. The plainer grades are expected to be in moderate supply in the future and men in the trade feel that the cheaper grades have dropped to their low point and better grades will be drawn down and put in line with the lower priced offerings. It is the time of year when the price range should narrow as the new crop of hogs is expected to start moving shortly.

W. W. F.

### FEEDING LAMBS IN DEMAND.

THIS is the time of the year when western range sheepmen ship stock freely. This year more than normal they are liquidating in a free manner because of feed shortages in most sections. The result is a lot of thin lambs on the markets that are ideal for corn belt grazing and feeding. The feed shortage makes the number of thin grades larger than usual while breeding stock has also been plentiful in the supplies.

Corn belt feeders are not overlooking the opportunity to stock up at this time. At the markets where the range stock is being offered, feeders from Michigan, Ohio, Kentucky, Illinois, Iowa, and from sections throughout the New England states are among the buyers. The recent decline in prices put feeding stock down to a level that looked attractive to the buyers. Range men claim the crop from the western country will be small next year but it appears that mid-west and eastern feeders will have a liberal number from the buying they are do-W. W. F. ing at present.

### FALL DAIRY OBSERVATIONS.

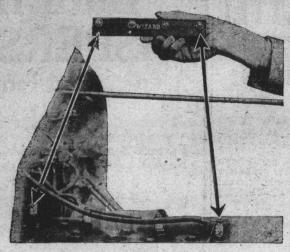
(Continued from page 357).

time to start. The year 1929 seems far away, but the year 1909 seems only yesterday. One of the things that win determine the strength of a farmer's dairy business in 1929 is apt to be a start with quality pure-bred stock in the year 1919.

The high prices paid for certain pure-bred animals often leads a farmer to believe that nothing in the purebred line can be obtained without the spending of a fortune. Some of these high prices are given too much publicity and they represent the figures paid by wealthy men who buy cattle as a sort of sporting proposition rather than as a means to making money from milk production. What the average farm community needs is more pure-bred cows and more pure-bred bulls at moderate prices so that they can be purchased for money that makes them a safe and profitable investment. Maybe the Holstein investigations will wake up some breeders to the dangers of paying exorbitant prices for cattle with short testing records. The foundation of the dairy business is based on milk and bufter production and not on fabulous prices paid for a few individuals.

Try and estimate the winter's feed requirements in the fall when extra feed may be purchased from farmers in the neighborhood. This saves the middleman's profit and a long haul from the city or some distant farm. It is much satisfaction when stormy weather comes to know that the cows can be abundantly fed until the spring pastures are green again.—R. G. K.

# You Can't Make These Two Cylinders Miss



Nothing so Annoying as SPARK PLUG TROUBLE - As you receive the Wizard Spark Produces



Get a "WIZARD" Spark Producer For Fords



IT SHOOTS THE SPARK RIGHT THROUGH THE GREASE AND OIL

The WIZARD SPARK PRODUCER insures the forward and rear cylinders firing every time. The hot spark burns the oil off the plug and makes the old plugs shoot like new ones.

GREATLY INCREASES MILEAGE ON KEROSENE OR GASOLINE

Its hot spark saves gasoline or kerosene fuel and greatly increases mileage. After one trip you would not part with the WIZARD SPARK PRODUCER on your Ford for several times its cost.

MAKES MOTOR START EASY IN COLD WEATHER

The sharp lightning flashy spark delivered to the plugs fires the rich charge in the cylinder when starting in cold weather when you pull the air choker valve while spinning the motor. (Because the spark is always there.)

FOR A TROUBLE FINDER YOU CANNOT BEAT IT

For a trouble-finder with the coil buzzers it's a dandy. The spark gap on the WIZARD SPARK PRODUCER tells you in an in-

#### THIS IS THE WAY TO DO IT

Remove the four spark plug wires from the coil posts under the hood of the car. Take off nuts and washers from the one side of the WIZARD SPARK PRODUCER then place the plug wires on the bolts of the WIZARD SPARK PRODUCER and replace the nuts and washers. Then after you have removed the nuts and washers from the coil posts clean down to the porcelain, slip the WIZARD SPARK PRODUCER right on the porcelain posts with one washer on each. See that washers are so adjusted on the spark plug points in the same manner. Keep your timer reasonably cleaned and oiled, and your spark plug troubles will be over.

Send check or money order. Order yours today. After using one, you will want the agency. When you demonstrate it every Ford owner will buy one. Live Agents Wanted. Price......

Lock Box

WIZARD SPARK PRODUCER CO.

Take out the forward spark plug, fill it up with hard oil grease, then replace it in the cylinder, attach the plug wire and upon cranking your motor you will be surprised to learn that the WIZARD SPARK PRODUCER is shooting the current right through the grease you have placed in the plug, and the cylinder fires regularly. Second test, place a dirty plug or even one troken in this cylinder and you will find the results are the same.

THIS IS THE WAY TO TEST IT

\$1.65 PEORIA, ILLINOIS

# Ed. Uvaas Made 1900 Profit n 84 Days Work

Wouldn't you like to clear \$1900 in such a short time? It's a nice comfortable amount-you can do it just as well as Mr. Uvaas did. The work is everywhere about you, waiting for some one with a



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

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THE MICHIGAN FARMER,

West Michigan Holstein Breeders' Annual October Guarantee Quality Consignment Sale of

# REGISTERED HOLSTEIN CATTLE

At the West Michigan State Fair Grounds Grand Rapids, Mich.

## THURSDAY, OCTOBER 2, 1919 77--HEAD--77

Of good REGISTERED HOLSTEIN CATTLE to be sold, mostly COWS and two-year-old heifers which will freshen just before the sale, or will be due to freshen in October or November. Also a few good Heifer Calves and Year-

We will have some very high-class Herd Bulls in the sale. We will have a three-year-old Bull whose three nearest dams average 31.70 lbs. of butter in seven days, and all three have A. R. O. seven-day butter records of from 31.11 lbs. to 32.43 lbs. of butter in seven days. We will also have a Yearling Bull whose five nearest dams average 29.91 lbs. of butter.

The Traverse City State Hospital has consigned their Junior Herd Bull whose two nearest dams average 28.80 lbs. of butter in seven days. We will have a Bull Calf whose two nearest dams average 28.96 lbs. of butter in seven days. We will have three other well-bred Yearling Bulls and Bull Calves from good sires and A. R. O. dams.

We will sell a Bull Calf whose dam has a yearly official record of 634 lbs. of butter, and sire's dam has a yearly record of 1226.2 lbs. of butter.

We will have two 28-lb. A. R. O. Cows and a daughter of a 28-lb. Cow and a 30-lb. sire in the sale.

and a 30-lb. sire in the sale.

We will have five beautiful bred heifers and one choice heifer calf from the noted Traverse City State Hospital Herd.

We will have a nicely marked Heifer Calf out of a 39-lb. Bull in the sale.

If you want to buy a cow or two-year-old Heifer due to freshen in October or November, or if you want one or two carloads of such Cows and

Heifers, you can buy them in this sale.

If you want one or more good Heifer Calves to start a herd with, this will be your opportunity. If you want a very high-class Herd Bull, or if you want a well-bred Yearling Bull, or a Bull Calf with exceptionally good breeding, you can buy what you want in this sale.

REMEMBER THE TIME AND PLACE—THURSDAY, OCTOBER 2nd, 1919 at the WEST MICHIGAN STATE FAIR GROUNDS, GRAND RAPIDS, MICHIGAN. If interested write for Sale Catalog.

#### Col. D. L. Perry, Auctioneer. W. R. Harper, Sale Mgr. Middleville, Mich. S. T. Wood, Pedigree Expert.

Remember the three great West Michigan Holstein Sales on September 30th, and Octobr 1st and 2nd, 1919.

These three sales will offer out-of-the-state buyers an exceptional opportunity to buy choice Registered Holstein Cattle, in carload lots, for over 200 head of High-Class Registered Holstein Cattle will be sold in these three

The F. D. Cutler Mighty Rag Apple Dispersal Sale of 75 head of High-Class Cattle will be held in Wayland, Michigan, on September 30th. Wayland is only 21 miles from Grand Rapids.

Buth Brothers' Dispersal Sale of 60 head of very choice Cattle, including four 30-lb. cows, will be held at their farm only four miles from the West Michigan Fair Grounds, on October 1st. Then the West Michigan Holstein Breeders' Consignment Sale will follow on October 2nd.

# **Buth Brothers'** DISPERSAL SALE

At Creston Stock Farm, Comstock Park, Mich.

# October 1, 1919

Farm is 3 miles from end of street car line out of Grand Rapids. Autos will meet cars on day of sale.

Herd Federal Tested

# Sixty Head of Registered Cattle

Four 30-lb. cows and 4 daughters of 30 to 34-lb. cows; 12 cows with average production better than 26 lbs. each.

Thirty are bred to Glen Alex King DeKol 213523; his dam, 43.29, grandam, 42.26, full sister to dam, 42.36; and sired by Spring Farm King.

Glen Alex King DeKol will be sold with 10 of his sons and daughters. Also daughters of Finderne Alexis Segis Korndyke whose dam has a 38-lb. 3-year-old record.

# The Entire Herd Will Be Sold

This herd has won more money every year at West Michigan State Fair, than any herd shown at the same time. It contains much King Segis and Pontiac Korndyke breeding.

The Mighty Rag Apple Sale will be held at Wayland, Mich., Sept. 30 and the West Michigan breeders sale at Grand Rapids, October 2.

Your Choice of Some 200 Head

# BUTH BROTHERS

Creston Stock Farm

COMSTOCK PARK

**MICHIGAN** 

### BREEDERS' DIRECTORY

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# bull calf, sired by our imported **"EDGAR of DALMENY**

recently sold in Scotland at the Perth Bull Sale for the record price of 2,100 guineas, or \$10,584.00 in our money. This goes to show the quality of the

# ABERDEEN ANGUS

that Mr. Scripps is breeding. He enjoys seeing good stock on "Wildwood" and believes that THE BEST IS NONE TOO GOOD.

"Edgar of Dalmeny" won the Michigan Grand Championship last Septemeber at the Michigan State Fair and was a winner in his class at the Chicago International last December.

We have a few females with calves at foot and re-bred to "Edgar of Dalmeny" that Mr. Scripps has consented to sell to reduce the fast growing herd.

Write To

## WILDWOOD FARMS

ORION, MICHIGAN

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

# **WOODCOTE ANGUS**

Established in 1900. TYPE--QUALITY--BREEDING

The herd (tested annually) is absolutely free from tuberculosis.

A few buils (no females) for sale

WOODCOTE STOCK FARM, Ionia, Mich

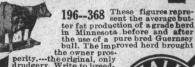
Cloverly Angus Bred cows, heifers and bull calves of good breeding.
GEO. HATHAWAY & SON, Ovid, Mich.

# REGISTERED **GUERNSEYS**

Young bulls of quality for sale, backed by generations of large producers. All tuberculin tested. Come and

AVONDALE STOCK FARM, WAYNE, MICH.

Registered Guernseys Two choice two year old Guernseys bred-\$500. J. M. WILLIAMS, North Adams, Mich.



bull. The imp the owner pros-perity,---the original, only drudgery. Write to breed-ers for descriptions and prices and send for our free booklet, "The Grade Guernsey."



Guernsey Bull Burly of Strawberry Hill No. 52061 born April 24th 1917, Price 5300.00. Sire King Bell of Briarbank No. 28808; Dam Dalsy Deep Dale 1 No. 56429. Walter Phipps Farm, 80 Alfred St., Detroit.

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

GUERNSEYS must reduce herd, so offer a few choice females of Glenwood breeding also bulls, all stock of A. R. breeding, herd tuberculin tested.
T. V. HICKS, Battle Creek, Mich.

For Sale: Guernsey bull calf fawn and white, 10 months old, a beauty, Nancy's Sequel 56736; Sire, Halcyon Sequel 22336; Dam, Nancy's Nancy 64002. Dr. W. R. Baker, 1360 West Fort St. Detroit, Mich

Guernsey Bulls For Sale—St. Austell Dal-ton, 43028; born December, 1915, Stred by Don Diavolo of Linda Vista; Dam Lang, water Suffragette. A. R. 2346 Class A 585.58 butterfat Also Niavara 2nds Duke, 50564; born December, 1917 F. E 'Robson, Room 307 M.C.R.R. Depot Bldg. Detroit

Reg. Guernseys For Sale — 3 cows, due this fall, yearling bull. Eugene Wiloox, Bangor, Mich.

\$75 gets 1½ mo.'old gdson Maplecrest Korn. Heng. and the daughter of Johan Heng. Lad. and 18.48 lb. daughter of Cal. Jane Paul A. Dam is my best milk, er. Terms. M. L. McLAULIN, Redford, Michigan.

A Good Note accepted in payment of finely bredreg-of the best, and at prices within reach of all. Write, GEO. D. CLARKE. Vassar, Mich.

NO more bull calves to offer until next fall. Place your order for one from next fall's crop. My herd is on the state and federal accredited herd list. A. F. LOOMIS, Owosso, Mich.

**Butter Making** In Holland

Butter making is the chief business of the Holland Dairymen, the orginators of the Holstein-Friesian breed of cattle. Upwards of forty million pounds of butter per year is exported from that little country, which is more per cow, and more per acre, than does any other country export.

If interested in

### HOLSTEIN CATTLE our booklets-they contain much

THE HOLSTEIN FRIESIAN ASSOCIATION OF AMERICA Box 164, Brattleboro, Vt.

#### Traverse Herd

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

TRAVERSE CITY STATE HOSPITAL Traverse City, Mich.

To avoid inbreeding will sell Binnie of the Ridge No 41857 three backed up by many generations of large producers. Buy one of these backed up by many generations of large producers. Buy one of these backed up by many generations of large producers. Buy one of these backed up by many generations of large producers. Buy one of these backed up by many generations of large producers. Buy one of these backed and not one reactor. A good place to buy to builty our are looking for, and f have two very friendly bred, and splendid individuals ready for amount of service. I want to answer any one was able to be a supplied to the producers of the service McPherson Farms Co., Howell, Mich.

# Shorthorns—Holsteins and Jerseys

If your community needs a pure-bred bull, write us for our cooperative breed-ing service plan, and we will see what can be done to place one there. We specilize on Milking Shorthorn bulls.

Palmer Bros. Orleans, Michigan.

## "Winwood Herd" Holstein - Friesian

FLINT MAPLECREST BOY

His sire is Maplecrest Korndyke Hengerveld. His three nearest dams each over 30 lbs. of butter in 7 days. His dam and granddam both made over 1232 lbs. of butter in 0 ne year. It is the yearly cow we are looking for to deliver the goods. Flint Maplecrest Boy's Dam is Gluck' Jassar Bell, 30.57 lbs. of butter in 7 days and 121 lbs. in 30 days. Her butter fat test is 5.27. We have a few choice bull calves about ready for service and one or two ready. Remember we are breeders and not dealers in cattle. Our price is right, breeding considered. Write us your wants, or come and look this herd over before you buy, and see for yourself. You will be glad you came. Herd tuberculia tested.

JOHN H. WINN, Inc. Lock Box 249, Roscommon, Mich. Reference Roscommon State Bank,

### Wah-Be-Me-Me Farms Pure Bred Registered

Holstein-Friesian Cattle

Herd Headed by Segis Pontiac De Nijlander

A 32 lb. grandson of Michigan's great 35 lb. champion cow, Pontiac De Nijlander. His dam, Oak Valley Korndyke Beets Segis Fan, 32.06, also a Michigan prize winner last year and a prize winner in the National Ass'n, all classes, as a 4 year old last year. Her dam is a granddaughter of King Segis and as a 5yr. old his 731.5 lbs. milk, 18, 29.47 lbs. butter in 7 days and 2998, 4 lbs. milk, 118, 9 lbs. butter in 30 days. Segis Pontiac De Nijlander's dam as a four year old (she is 5 yrs. now) made 122.1 lbs. butter and 2721 lbs. milk in 30 days. Write for list of bull calves from 18 lb. 2 year elds to over 30 lb. dams. Have a five year old son of Rag Apple Korndyke Sth. a half brother to the \$125,000 bull for sale. Also Big17pe Foland Ohina hogs sired by a litter mate to the Illnois Grand Champion. Albert G. Wade, Prop. White Pigeon, Michigan.

## THE HOLSTEINS

bull you are looking for, and I have two very fine, richly bred, and splendid individuals ready for any amount of service. I want to answer any question you may ask about htem.

L. E. CONNELL, Fayette, Ohio

# **CLUNY STOCK FARM**

100--REGISTERED HOLSTEINS--100
When you need a herd sire remember that we have one of the best herds in Michigan, kept under strict sanitary conditions. Every individual over 6 mos. old regularly tuberculin tested. We have size, quality, and production records backed by the best strains of breeding.

Write us your wants.

Write us your wants.

R. BRUCE McPHERSON, Howell, Mich.

Purebred Holstein Females 30

# Shorthorn HEAD 40 Good, High Class Registered Cows and Heifers, 10 Bulls

Including a few cows of the Dual Purpose or Milking Strain

This sale will be held under the auspices of the Southern Michigan Shorthorn Breeders' Association

All stock is sold on consignment from members of this Association and is of a quality which commands attention

# Hillsdale, Mich. Fair Grounds

TUESDAY, SEPTEMBER 30, 1919

For particulars and catalog address

ANDY ADAMS, Sale Mgr. and Auctioneer COL. O. A. HOPPINGARNER, Auctioneer

JOHN SOUTHWORTH, Sec., Allen, Mich.

CATTLE

# LSTEIN A. R. O. Bulls

From Tested Dams.
AT FARMERS' PRICES Will Sell or Lease. FLINT, MICH. J. C. Morris.



"SCRUBS" cost more in the long run, no matter how little you worry or care about them. A pure-bred cow that is registered pays many times over.

If you have Jerseys now that are pure bred, or if you contemplate getting Jerseys, let us mail full information and application blanks for registering. The registering cost is a trifle when you consider how it adds to the value of the cow or calf. Write today for Jersey facts and registrating information.

The American Jersey Cattle Club New York, N. Y.

Registered Holstein heifers bred to a double grand-son of the great May Echo Sylvia 41 bs. butter and 1006 bs. milk in 7days. C. H. Giddings, Gobleville, Mich

ILLIE Farmstead Jerseys. A few heifers bred to freshen this fall, also yearling heifers; and two or three B. of M. coys. Colon C. Lillie, Coopersville, Mich.

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

Maple Lane B. of M. Jersey herd. Bull and heifer
calves sired by a nephew the new-World's
Champion. Sophie's Agnes. Also R. O. Red eggs and
chix.

For Sale Registered Jersey bulls ready for service and bull calves, SMITH & PARKER, R. 4, Howell, Mich.

The Wildwood Jersey Farm Bulls for sale by Majesty's Oxford Fox 134214 and Em-nent Ladys Majesty 150934, and out of R. of M. Ma-esty dams. ALVIN BALDEN, Capac, Mich.

#### JERSEYS FOR SALE

Two young cows due to freshen in Oct., one bred heif or due to freshen in Dec., two heifer calves dropped last Dec. All are recorded or eligible. No bulls or bull calves at present. Will ship C. O. D. Newman's Stock Farm, Marlette, Mich. R. No.

For Sale Jersey Bull, Oxford You'll Do blood, Dam Fregister merit Sire Grand Champion, 3 years old a reproducer, 75 per cent of his calves are fine heifers. Ira Ingraham, Sauble, Lake Co. Mich.

20 cows and heifers for sale.

ALLEN BROS., Paw Paw, Mich.

Herefords Polled and Horned blood lines embrace Fairfax. Polled Perfection and Prime Lad 9th breeding. Prices reasonable. COLE & GARDNER. Hudson, Mich.

Herefords Bob Fairfax 494027 at head of herd. Stock for sale, either sex, polled or horned, any age. Priced right. EARL O. McCARTY, Sec y. H. B. Ass'n. Bad Aze, Mich.

# Harwood's White Faces

Owing to labor shortage will sell one half my herd, consisting of 120 head of Reg. Herefords, yearling and two year old heifers, cows with calf at side, re-bred to ton bull. Ten short yearling bulls. Priced right for quick sale.

JAY HARWOOD, -: Ionia, Mich.

Hereford Bulls Just two yearlings left. Herd-header quality. You will buy on sight at the price. E.J. Taylor, Fremont, Mich.

# BIDWELL For Beef and Milk

Registered bulls, cows and heifers, Good Scotch and Scotch-Topped for sale. In prime condition. Modern sanitary equipment. Herd under state and federal supervision. Farm 10 minutes from N. Y. C. depot, I hour from Toledo, Ohio. Automobile meets all trains. Write

BIDWELL STOCK FARM

# Richland Stock Farm

SHORTHORNS
HOME OF THE MICH. CHAMPIONS
We offer for sale a few good dual purpose cows with calves at foot. Also two three year old bulls suitable for range purposes, We invite inspection.
C. H. PRESCOTT & SONS,
Office at Tawas City, Mich. Herds at Prescott, Mich.

Shorthorn Cattle of both Sex for Sale W. W. KNAPP, Howell. Michigan.

## MAPLEWOOD SHORTHORNS

Shorihorns Scotch and Scotch Topped cows and heif-ers, priced right. Come and see them or write W. B. McQUILLAN, R.7, Howell, Mich.

For Sale Shorthorns of Quality Scotch and Scotch Topped descendents of Archers Hope, Avondale, Maxwaiton Sulton and White Hall Sulton. Model Type, by the Oscola Co. Shorthorn Breeders Ass. John Schmidt, Sec. Reed City, Mich.

Scotch Topped Cows For Sale. Bred by the Mich, M. V. Butler, Williamston, Mich.

Shorthorns New list, 27 bulls; 28 females. Feb. list all sold. Central Mich Shorthorn Breeders' Assn., Oscar Skinner, Secy., Gowen, Mich.

The Kent Co. Shorthorn Breeders have both males and females for sale. Ask about them.
L. H. LEONARD-Sec., Caledonia, Mich.

SHORTHORNS A young Mary cow and calf also a young bull for ale. Louis Bubbitt, Williamston, Mich

Meadow Hills Shorthorns For sale females of all ages, including one aged cow at bargain; also one roan bull ready for service. Geo. D. Doster, Doster, Mich.

# MILKING SHORTHORNS. Clay bull calves. Davidson and Hall, Tecumseh, Mich.

Special Offer Shorthorns— Gows \$250 to \$300 Wm. J. Bell, Rose City, Mich.

SHORTHORN BULL CALVES
FOR SALE. Chas, Metzel & Sons, Ithaca, Mich.

Milking Shortherns of best Bates breeding 2 3 and 7 months old for sale. E. H. Kurtz Mason, Mich. Red Polled Bulls For Sale

BIDWELL SHORTHORNS Red Polled Cattle, Oxford and Tunis Sheep and Large Yorkshire Swine. E. S. CARR, Homer, Mich.

Reg. Red Polled Bulls for Sale write for prices and discription to John W. Fish, Pickford, Mich.

HAVE a carload of fine quality deep red and roan heifers, bred to registered bull. Price \$30 to \$150 The Jennings Farms, Ravenna, Mich.

#### HOGS

Registered Berkshire Boars; ready for service. A few gilts and sows bred for May and June farrow. Also spring pigs. CHASE STOCK FARM, Marlette, Mich.

# DUROC--JERSEYS E. D. HEYDENBERK Wayland, Mich.

Attention Breeders and Farmers Now is the that Dunco Boar for fall service. We have some Corkers. March pigs will weigh 100 lbs. Jaly Ist. Inspection Solidited. Prices very reasonable, RUSH BROS., Oakwood Farm, Romeo, Michigan.

What would the earning capacity of a Brook-water Boar be in your herd? A mid-west breeder states that the Brookwater boar he used added from \$75 to \$100 to every gilt bred to him. It payed this man to use one of our boars it will nay you.

It payed this man to use one of our boars it will pay you.

We have several that we are offering at prices which appeal to the small breeder who must of necessity be a conservative buyer. We have a few that are good enough to be used in high class herds at prices in keeping with their in individuality and breeding. Money invested in a good herd boar very speedily increases the value not only of what you sell but what you keep. Send for price list or better, visit the farm.

BROOK VATER FARM, Ann Arbor, Mich. HERBERT W. MUMFORD, owner, J. BRUCE HENDERSON, Manager.

For the Boys and Girls, \$12.00 for a Duroc Jersey sex, M. A. C. and Brookwater breeding, Registration papers free. D. W. Sutherland, Gd. Ledge, Mich.

### **DUROC SOWS**

sired by Walt's King 92949, the sire of 1st. prize winners last year, and bred to Orion's Fancy King the real big type Duroc, NEWTON BARNHART, St. Johns, Mich.

# DUROC JERSEYS CAREY U. EDMUNDS, Hastings, Mich.

## Registered Duroc Boars

We have a choice lot of spring boars, sired by Michigan Cherry Col. No. 118479. Ira Jackson selected this boar to head our herd. Our prices are within every farmers reach. The Jennings Farms, Bailey, Mich., R.F.D.No.1

DUROC Jersey spring boars sired by Orion Cherry King Col. 2nd. with size and feeding qualities. W. C. Taylor, Milan, Michigan.

Duroc Jerseys Two good yearling boars that best herds in Michigan, also spring boars large enough for service. Sired by the Grand and Junior Champion boars.

F. J. DRODT, B. 1, Monroe, Mich.

8734 Hampshires recorded from Jan. 1 to Apr. 1, 19, Did you get one? Boar pigs only for sale now. JOHN W. SNYDER, R. 4., St. JOHNS, MICH.

# THE WORLD'S CHAMPION big type O.I.C'S. Stock of all ages for sale. Hord headed by Calleway Edd, the World's Champion O. I. C. boar assisted by C. C. Schoolmaster, Grand Champion boar of Michigan, New York and Tennesse state fairs. Also, C. O. Giant Buster, undefeated Senior boar pig wherever shown and Grand Champion of Oklahoma state fair. Get our catalogue of Grandell's prize hogs, Cass City, Michigan.

# Shadowland Farm

O. 1. C.'s

Bred Gilts 200 to 300 lbs. from prize win-ning stock. A few fall year-lings and 2 yr. old sows, big type, growthy boars of all ages, guaranteed as breeders. Everything shipped C. O. D. Express, paid and registered in buyer's name. J. CARL JEWETT, Mason, Mich.

Additional Stock Ads on Page 367



#### SECOND EDITION.

The markets in this edition were revised and corrected on Thursday afternoon, September 18.

#### WHEAT.

The tone in the grain market at yesterday's opening was weak and lower prices came at the start, but later in the day buying increased and a firmer market resulted. Wheat receipts on Wednesday were three cars as against nine cars a year ago. Shipments were 4,000 bushels. Stocks are 81,000 bushels, against 24,000 a year ago. The present prices on the Detroit market are:

| No. | 1 | red |    |   |  |  |  |  |  |  | \$2.25 |
|-----|---|-----|----|---|--|--|--|--|--|--|--------|
| No. | 1 | mi  | xe | d |  |  |  |  |  |  | 2.23   |
|     |   |     |    |   |  |  |  |  |  |  | 2.23   |
|     |   |     |    |   |  |  |  |  |  |  | 2.22   |
| No. | 3 | red |    |   |  |  |  |  |  |  | 2.18   |

#### CORN.

Detroit corn had a break of ten cents to start the week and the day was almost half over before the bullish influences had any noticeable effect on corn. Notwithstanding reports that the steel strike had been postponed corn values at first continued weak being dominated by agitation for lower food cost. Upturns in the value of hogs were also temporarily ignored. On ensuing declines in the corn market, however, offerings passed into strong hands. Then the shorts scurried to cover and the rest of the day the buying side was the favorite. Gossip that Germany had received American credit counted to some extent as can credit counted to some extent as a bullish factor. Chicago reported a better eastern demand for corn. One year ago No. 3 corn sold on the local market at \$1.60 per bushel. Present prices are:

| No. | 3 | corn   | · · · · · · · · · · · · · · · · · · |
|-----|---|--------|-------------------------------------|
| No. | 3 | yellow | 1.46                                |
| No. | 4 | yellow | 1.44                                |
| No. | 5 | yellow | 1.43                                |
|     |   |        |                                     |

#### OATS.

No. 3 white .......691/2@70

### RYE.

There was some export inquiry for rye this week, and values advanced one cent. The present price as quoted at Detroit for Cash No. 2 is \$1.40.

#### BARLEY.

The price quoted on barley remains lower.

unchanged from last week, with Cash No. 3 selling for \$2.40@2.50 per cwt.

The visible supply has decreased 802,

Sheep and Lambs. 000 bushels.

#### BEANS.

The bean market is generally inactive and easy. There is practically no speculative activity and no export business. However, holders have shown little inclination to cut prices in an effort to reduce stocks before the new crop comes on the market. At Detroit the market is slow at \$7.60 for immediate and prompt shipment. In New York pea beans are in slow demand at \$8.50 per cwt. for choice. Reports of yields from southern bean growing sections of the country are not encouraging.

#### POTATOES.

The commercial crop in Michigan, Wisconsin and Minnesota is developing favorably, except that some districts are suffering from a lack of moisture. No frost has been reported as yet. Large shipments from the east continue to come to Michigan cities. At Detroit, New Jersey Giants bring \$4.50 per 150-pound sack; at Chicago Minnesota potatoes are lower at \$2.25 @2.40 per cwt; at Pittsburgh the demand and movement is slow, with sales to jobbers at \$4.50@4.75 for Cobblers in 150-pound sacks.

in all corn feeds.

Production of butter is being well sustained, and there is a strong demand for the better grades. At Detroit fresh creameries have advanced to 53½.054c; in New York the range for creamery extras is 58.059½c per

The movement of seed is increasing and the market is firm. At Detroit prime red clover is higher at \$29.75; october \$30; alsike \$24.75; timothy \$5.50.

HAY.

Hay is steady with fair receipts and a good demand at the following quotations: No. 1 timothy \$29.50@30; standard and light mixed \$28.50@29; No. 2 timothy \$27.50@28; No. 1 clover at \$24@25.

Pitts burgh.—Receipts of the better readers of her ware scarce with an account of the market is weak, whole milk specials bringing 30½@30c. Philadelphia jobbers are paying 30@32c for New York and Wisconsin full milk.

2 timothy \$27.50@28; No. 1 clover at \$24@25.

Pittsburgh.—Receipts of the better grades of hay are scarce with an active demand. In this market there is an exceptional demand for clover mixed hay. Quotations are: No. 1 timothy \$33@33.50; No. 1 light mixed at \$29.50@30.50; No. 1 clover mixed at \$29.50@30.50; No. 1 clover at \$30.50@31.50; No. 1 clover at \$30.50@31.5

### DETROIT CITY MARKET

Indications are that the bulk of the

are steady as follows: Bran \$44; lb; firsts 51½ @57½c; in Chicago butter is higher, with the quotations for end of the present week. Apples are creamery at 47@55½c; in Philadelphia western creamery extras bring 58½c.

SEEDS.

The movement of seed is increasing and the market is firm. At Detroit prime red clover is higher at \$29.75; October \$30; alsike \$24.75; timothy \$5.50.

HAY.

Hay is steady with fair receipts and a good demand at the following quotations for creamery at 47@55½c; in Philadelphia western creamery extras bring 58½c.

CHEESE.

The demand for cheese is somewhat uncertain owing to the fact that large quantities of cheese are known to be held in storage, and buyers are reluctant to increase their holdings at this time. At Detroit Michigan flats are steady at 33c per lb; single daisies at 30c; brick 34½c. At New York the agood demand at the following quotations for creamery at 47@55½c; in Philadelphia western creamery extras bring 58½c.

CHEESE.

The demand for cheese is somewhat uncertain owing to the fact that large quantities of cheese are known to be held in storage, and buyers are reluctant to increase their holdings at this time. At Detroit Michigan flats are steady at 33c per lb; single daisies at 30c; brick 34½c. At New York the 25.50; hens, live 32c; springers 26@ 30c; fresh white eggs 53@54c; mixed colors 40@50c. colors 40@50c.

#### WOOL

Statistics on the amount of wool sold and average prices obtained by the United States government are, according to figures submitted by the War Department, as follows: From November 23, 1918, to August 16, 1919, 325,493,677 pounds of wool were disposed of, for which the proceeds were \$197,330,793, at an average price of 61 cents per pound. For this period, the average selling price of 61 cents was 10 cents less than the total average purchase price of 71 cents per pound. purchase price of 71 cents per pound. Quotations for unwashed delaines in the seaboard markets are: Ohio 83@85c; Michigan 75@80c; half-bloods are quoted at from 78@80c.

#### **GRAND RAPIDS**

The ensilage crop is larger than usual this year. Many farmers have filled their silos. The price of potatoes on the city market last week was \$1.75 @2 per bushel. At some outside points farmers are paid \$2.50 per cwt. More grapes are being shipped this year into the copper country, upper peninsula, than ever before. Six cars were forwarded last week. Growers are being paid \$1.75 per bushel. The onion ing paid \$1.75 per bushel. The onion crop in some sections of this part of crop in some sections of this part of the state is light and very small, and invariably strong, due to the weather. Rain the past week enabled farmers to complete their fall plowing. Further reports on the bean crop indicate that it will be near normal. Some growers report a yield of 26 bushels per acre. The price is still \$7 per cwt to growers. Many farmers now sell their milk and cream and buy oleo. Very little No. 1 dairy butter is marketed. Makers get 45 cents per pound. get 45 cents per pound.

# Live Stock Market Service

# Reports for Thursday, September 18th

On this market today pigs sold at \$17.50; medium and heavy grades at \$17.75@18; yorkers and mixed \$18.25 @18.50; lambs were bought at \$15; calves at \$23.50.

### DETROIT

#### Cattle.

| Receitps 1,620.    | Market  | steady     | at    |
|--------------------|---------|------------|-------|
| last week's close. |         |            | 19.30 |
| Best heavy steers  | \$      | 12.00@13   | 3.00  |
| Best handy wt bu s | teers   | 10.00(a)1. | 1.50  |
| Mixed steers and   | heifers | 8.50(a)    | 9.50  |
| Handy light butche | rs      | 7.50@      |       |
| Light butchers     |         | 6.00@      |       |
| Best cows          |         | 8.50@      |       |
| Butcher cows       |         | 7.00@      | 8.00  |
| Cutters            |         | 6.00@      | 6.25  |
| Canners            |         | 5.00@      | 5.75  |
| Best heavy bulls . |         | 8.00@      | 8.50  |
| Bologna bulls      |         | 7.00@      | 7.50  |
| Stock bulls        |         | 5.50@      | 6.50  |
| Feeders            |         | 8.50@1     | 0.00  |
| Stockers           |         | 7.00@      | 8.50  |
| Milkers and spring |         | 60@        | 125   |
|                    | Calves. |            |       |
|                    |         |            |       |

# Receipts 883. Market strong to 50c

| Receipts 8,907.   | Lambs | 25@50c   | low   |
|-------------------|-------|----------|-------|
| er; sheep steady. |       | 919 000  | 10 50 |
| Best lambs        | ••••• | \$13.00@ | 19.00 |
| Light to common   |       |          | 10.50 |
| Fair to good shee | D     |          |       |
| C-11-             |       | 2000     | 6 00  |

ers in 150-pound sacks.

FEEDS.

There has been a continued decline all corn feeds. Bran and middlings with Estimated receipts today are 12,000. Market opening very slow, especially on better grades of beef steers; butcher stock and calves steady: good feeders firm; others slow. Beef steers, medium and heavy weight 1100 lbs up

choice and prime \$15.75@17.50; do medium and good \$11@15.50; do common \$8.25@10.75; light weight 1100 lbs down, good and choice \$14@17.65; do common and medium \$8@13.75; butcher cattle, heifers, common, medium, good and choice \$6.50@14.75; cows. common medium butcher cattle, heifers, common, medium, good and choice \$6.50@14.75; cows, common, medium, good and choice \$6.25@13.50; bulls, bologna and beef \$6.50@11.50; canners and cutters, cows and heifers \$5.25@6.25; do canner steers \$5.75@8.25; veal calves, light and handyweight, medium, good and choice \$20.25@21.50; feeder strs common, medium, good and choice \$7@12.25; stocker steers, common, medium, good and choice \$6.25@10; do cows and heifers, common, medium, good and choice \$6.25@10; do cows and heifers, common, medium, good and choice \$8.00; western range cattle, beef, steers, medium, good and choice \$10.75@15; do cows and heifers, medium, good and choice \$7.50@13.

Sheep and Lambs.

Estimated receipts today are 35,000. Mostly 25c lower; very slow on all kinds. Lambs 84 lbs down, medium, good, choice and prime \$12.75@15; do culls and common \$7.50@12.50; spring lambs medium, good, choice and prime \$9@11; ewes, medium, good and wethers, medium, good and choice \$6.50@7.75; ewes, cull and common \$2@6.25; breeding ewes, full mouths to yearlings \$7@13; yearling \$10.50@12.75.

BUFFALO.

Sentember 15, 1919

#### BUFFALO.

# September 15, 1919. Cattle.

Hogs.
Receipts 15 cars. Market is steady.
Heavy \$17.50@17.75; yorkers and mixed \$18; pigs \$17@17.25.
Sheep and Lambs.
Receipts 10 cars. Market is slow.
Lambs \$15; yearlings at \$10.50@11; wethers \$8.50@9; ewes \$7@7.50.

Steady at \$8@23.

# Veterinary.

Infected Udders.—Have some cows that are much troubled with inflamed and caked udders. Have them treated by our local Vet., who prescribed both internal and external treatment but it internal and external treatment but it failed to give them permanent relief. These cows have been milked by diffrent men. J. B., Holland, Mich.—Contagious inflammation of the udder is perhaps what you have in your dairy. The general treatment is keeping the bowels epen, giving ½ oz. doses of hyposulphite of soda to each cow daily. Keep the stable clean, milk the well cows first and wash the udder of diseased cows with one part bichloride mercury and two thousand parts tepid mercury and two thousand parts tepid water after each milking. In my practice I often apply one part fluid extract of poke, one part fluid extract of poke, one parts of olive oil to caked udder once or twice a day. It is well to keep in mind that such udder olive the parts of olive of the caked udder once or twice a day. It is well to keep in mind that such udder olive the parts of the caked udder once or twice a day. It der ailments as you mention

is well to keep in mind that such udder ailments as you mention are incurable.

Pica—Licking Disease.—I have been told that cattle that eat silage for any great length of time will crave wood and bark of trees. My cattle have plenty of salt, but are seemingly fond of wood. Will you tell me the cause and remedy? G. C., Standish, Mich.—Cattle that are continuously stabled, fed the same kind of food and who have no exercise, are most likely to suffer from this perversion of appetite, but it is not always an easy task to tell the cause. Keeping cattle out of doors on dry ground, feeding a well balanced ration is one of the preventatives. Mix together ¼ lb. of common salt, ¼ lb. carbonate of iron, ¼ lb. of ground gentian, 1 lb. of bone meal, 3 lbs. of powdered wood charcoal and give each cow four tablespoonfuls at a dose in ground feed two or three times a day. Turning cattle out to pasture is considered a remedy.

### LAMB PRICES RECOVER.

DESPITE liberal receipts of sheep and lambs, the latter have recovered from the recent low time. When prices\_declined, lambs were selling comparatively low to aged and yearling sheep, but the recent upturn wiaened the range and put lamb offerings on a stable basis compared with other offerings. The recent reaction makes the feeding lambs which were purchased on the low time look worth the W. W. F.

#### CATTLE FEEDERS UNEASY.

ANY cattle feeders have not yet put in their supply of feeding cattle because they are uneasy over the situation. They feel that with all the talk of cutting costs and the agitation against the packers, the situation does not look good to them. They fear that with the public being drilled to look for lower prices that their business does not look promising unless they can buy feeding stock at a rather low level. However, the uneasiness is not confined to the cattle feeders as many hog feeders seem disposed to get rid of their stock to avoid additional breaks. This feeling is partly due for the liberal receipts during re-W. W. F. cent days.

#### NEW YORK PRODUCE MARKET.

Butter.—Receipts of butter have been rather high this week as compared to last, 78,959 packages having been received this week while 48,811 were received last week. However, about twenty carloads of the butter received this week were from interior points where it had been purchased some time ago for shipment abroad. It is in this city at present awaiting shipping space for transportation abroad. The market for high quality butter has been firm and active throughout the week. There seems to be a decidedly strong demand for best grades of butter but medium to poorer grades find no buyers. There is an influx of centralized butter to this market at present but it is selling to decidedly poor advantage, in fact, scarcely any of it is moving at all. There is such a large surplus of medium grades on hand at present that an active export demand is about the only thing that will keep the market from becoming demoralized on under grades. The price tendency on high quality butter is constantly upward but the gain during the past week amounted to only half a cent. Quetations at the close on Friday were: Extras 57½c; higher scoring than extras 58@58½c; firsts (90 to 91 score) 54@57c; firsts (88 to 89 score) 52@53½c; seconds 49%@51½c.

Cheese.—The cheese market has been rather weak and irregular throughout the week. Accumulations are large and the make in Wisconsin is holding up very well. The market is sustained fairly well because jobbers are inclined to purchase considerable September cheese. There has been some export inquiry but dmand seems to be lacking as very few sales have been made during the week. Quotations which are little different from those of last week are as follows: Common to good 26@29c; average run 30@20½c; specials 31@31½c.

Eggs.—Receipts of eggs have been heavy during the week, the total receipts exceeding those of last week by about 13,000 cases. The quality of the receipts continues to be very poor. Jemand Storage stocks have been broken into somewhat most holders are awaiting a more favorable turn

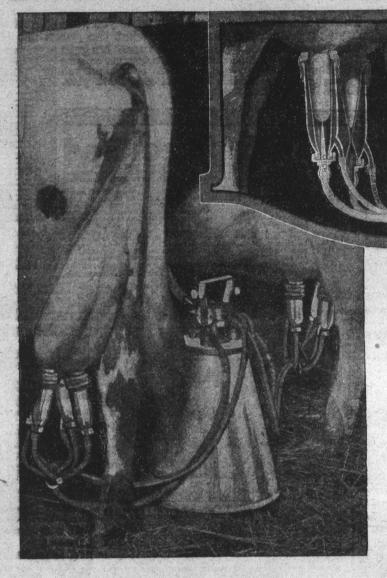
using them to any great extent. Quotations are as follows: Seconds 41@46c; firsts 47@51c; extra firsts 52@

46c; firsts 47@51c; extra 155.56c; extras 55.056c.

Poultry. Receipts of live poultry have been high throughout the week and while the demand has been good generally have declined. The prices generally have declined. The principal decline seems to be with the spring chickens. Quotations are as follows: Spring chickens 25@27c; towls 30@31c; old roosters 19@20c; ducks 25@26c; geese 20c.

Have your eyes and mind trained so you can tell, by looking at the cow, her feed and milk sheet, whether she has received proper feed and treat-

# Universal natural milker



### SOLVES THE HELP QUESTION

Pataskala, Ohio.

We have been using one of your milkers for two and one-half years—are milking 18 cows in \*5 minutes

The cows like it much better than hand milking. It surely solves the help question which has been puzzling all the dairymen.

These are only a few of the good points about it, but the space will not allow us to say much. You have the privilege of referring anyone to us.
You have the privilege of referring anyone to us.
Yours very truly, RAY OSBORN.

## QUICKER, BETTER CHEAPER

Alternates-Like

Milking with hands

A "three man-power" machine— the Universal Natural Milker. One of the greatest improvements in mod-ern farm methods.

Universal milks three cows in the same time one man can milk a single cow by hand. And Universal results are bett er.

The Universal milks natures own way—massaging two teats while milk-ing two. Does the work really better than the average hand milker at one-third the cost. And better for the cow

Universal rubber lined teat cup fits every cow. No fitting, no adjusting. So simple that a boy or girl of 12 can operate. Easy to clean—more sanitary.

Twice a day Universal pays its way, cutting time and expense. On the job every day—730 times a year. Winter and summer.

Labor may come and go but the Universal goes on throughout a life time, saving money.

See our nearest dealer-or write us for catalog.

### The Universal Milking Machine Company

1302 Mound Street, Columbus, Ohio

#### SHIP YOUR

# POULTRY, VEAL and HOGS

# J. W. Keys Gommission Co.

470 Riopelle St., Detroit, Mich.

Eastern Market

You Will Get a Square Deal and Returns Daily.

#### Mr. POULTRY FARMER

We make a specialty of White Hennery Eggs and have created a profitable market for your eggs the year around. We pay the highest premium for yous Hennery Whites—We remit same day shipment arrive. Ship Often—Ship by Express

GEO. R. ELDRIDGE CO. 494-48th Street, Detroit, Mich. ber! Weguarantee you estisfaction with every shi

We will pay 55e per dozen delivered here for strictly fancy new laid eggs, cases included. Shipments via express direct from farmers. This price good until her 27th. Watch our price each week, an Butter & Cheese Company. Petroit, Mich

Holmes, Stuwe Co., 445 Riopelle St.

ommission Merchants. Dressed Beef, Hogs, calvoultry, Live & Dressed, Provisions, etc. Carresponce Solicited, Ref. Wayne County & Home Savigank, Bradstreet, Detroit, Mich. Cad. 2

### HOGS.

O.I.C. One very choice 9 months old boar and grand by Prandell's Big Bone (63928). Glenwood Stock Farm, Zeeland, Mich.

#### O. I. C. and Chester White Swine

Strictly Big Type with quality. Spring pigs of March and April farrow. A choice lot of boars. Will only spare a few more gitts at present. Will ship C. O. D. and record them free. Marlette, Mich. R. No. 1. Newman's Stock Farm.

O. I. C's. Bred gilts all sold. Plenty of spring pigs good enough to ship C. O. D. P. C. BURGESS, R. 2. Mason, Mich.

6. 1. C's One very good yearling boar, and this spring aigs to offer, registered free. % mile west of Depot. Clitisens Phone 124. OTTO B. SCHULZE, Nashville, Mich.

O. I. C. 20 Choice Young Boars and a few fine gilts. Clever Leaf Steek Farm, R. 1, Monroe, Mich

O. I. C's. 6 fine spring boars, 4 gilts and two sows.
Wilk, R. 2 Alma, Mich.

For Sale One choice reg. O. I. C. Boar I month culars write Bert Gilbert Livering, Mich. R.2



HAVE started thousands of breeders on the road success. I can help you. I want to place one hog fray great herd in every community where I am not already resented by these fine early developers—ready for market a months old. Write for my clan—"where Money from Hog G. S. BENSAMIN, B. F. D. 10. Portland, Michigan and Michigan and

# **Big Type Poland Chinas**

Sired by Smooth Mastodon a son of A's Mastodon and litter mate to the Illinois Grand Champion. Boar pigs and gilts, bred sows from above sire and Big Bob dams, the big boned, deep, long bodied kind at farmer's prices.

Wah-be-me-me Farms White Pigeon, Michigan.

For 25 Years We have been breeding B of the most approved blood lines. Our new herd by "Michigan Buster" is a mighty sood son of the gre-"Glant Buster" dam "Moow "Miss Queen". Son breeding! Litter of 14. We are affering some sows in for fall rarrow. J. C. BUILDER, Perland, Mis

Big Type Poland Chinas with quality Pigs to 7441. G. A. BAUMGARDNER, R. 2. Middleville, Mich

L. S. P. C. A few good gilts left for Fer-H. O. SWARTZ. Schoolcraft, Michlaum

MICH. Champion herd of Big Type P.C. Nothing for sale but fall pigs; orders booked for apring yes. E. R. LEONARD. St. Louis, Mich

Big Bob Mastodon Sire is Caldwell Big Bob Cham at lows State Fair, Boars ready to Ship, C.E. Garn Eaton Rapids, Mich.

L. S. P. C. Ten husky spring boars. Well bred and well fed ready to ship.

For Sale Medium T. P. C. Hogs All sizes. J. E. Mygrants, St. Johns, Mich

SALE— 72 MEDIUM P. C.

Additional Stock Ade. on Page 355

