

VOL. CLIV. No. 26

DETROIT, MICH., SATURDAY, JUNE 26, 1920

ONE YEAR \$1.00 FIVE YEARS \$3.00

A Group of Rural Leaders (See legend on page 952)



Will Farming As a Business Come Back?

In these days when the exodus of farmers from the country to the city is at its very height, and good prices for farm products practically assured through improved and more direct systems of marketing, young men can well afford to investigate the field of agriculture and its possibilities. Reports from all parts of the country show a shrinkage in the acreage of farm crops and in some sections entire farms are abandoned. There are three main reasons for this constant drain upon the rural communities.

The first is the multiplicity of industrial opportunities for young men. High wages and short hours have a captivating influence. Movies and other artificial allurements make a temporary appeal. In a majority of cases the money comes easy and goes easy and not much thought is given to the future. They are living in the present, but the fact remains that they have left the farm and have been swallowed up by lives of activity that are less stable and wholesome than agriculture. The

backbone of the nation has been, and must continue to be the farmer. Farming is the basic industry upon which all are dependent.

The second reason for this exodus is the shortage of farm labor. The farmer is forced to bid against big business interests for farm help. The business corporations can fix the price of their finished product and make that price cover the cost of production and guarantee a profit, while the farmer cannot under normal conditions. The manufacturer knows approximately what his output will be, but the farmer does not, as he is dependent upon weather and climatic conditions over which he has no control.

The third is the fact that farmers are moving to the city to educate their children. The rural school, under our present system, fails to meet the needs and the high school training cannot be obtained unless the children are taken or sent to the city for it. To avoid the necessity of (Continued on page 958).

The Michigan Farmer

The Lawrence Publishing Co. **Editors and Proprietors** Detroit, Michigan LaFayette Boulevard

YORK OFFICE-381 Fourth Ave. AGO OFFICE-111 W. Washington St. ELAND OFFICE-1011-1013 Oregon Ave., N.E. DELPHIA OFFICE-261-263 South Third St.

... Business Manage I. R. WATERBURY

TERMS OF SUBSCRIPTION All Sent postpaid Canadian subscription 50c a year extra for postage

RATES OF ADVERTISING

Member 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 TWENTY-SIX VOLUME CLIV.

DETROIT, JUNE 26, .1920

CURRENT COMMENT

County Farm Bureau Work

R EPORTS of Country Farm Bureau activities which have appeared in these col-'umns in recent weeks reveal the fact that

business organization has progressed along somewhat different lines in the goods or supplies. This necessity was different counties. This is undoubtedly due in part to the different conditions which must be met and the varying problems to be worked out. But it is, in some degree at least, due to the viewpoint of the leaders in the various counties as to the methods of organization and conduct of community business which will prove of the greatest value to the people of the community ment, shortage of coal, and labor diffi-

In view of the efforts which have been made to standardize this work through the medium of the county agricultural agents this apparent diversity of methods has been a surprise to members of the Michigan Farmer staff, as it undoubtedly has to our readers. This series of articles on the activities of the County Farm Bureaus was undertaken to better acquaint the sible date to insure a seasonal delivfarmers of the state with the work being undertaken and the results being accomplished by different methods of organization and work in the counties of the state which have made the greatest progress along organization lines. It now appears that the variation in the methods adopted in the different counties is so great as to be well worthy of personal investigation by the directors of County Farm Bu- mined effort to get this year's wool a century during which it has been a

est field of opportunity will be to aid which many of them will find it diffithe county organizations in a business cult to do without some special proway, rather than to conduct their business for them. The state organization Michigan growers who are in the State tions have had less room devoted to
can aid the county organizations, in Farm Bureau woel pool, such provismuch the same way as the county ormuch the same same of the same ormuch the same or-Bureau members in every county to growers of other states are taking ac- as a review of the index will show.

movement is to result in the greatest of their clip. igan farmers

Those who have been placed in charge Early this week representatives of News of the Week of the state work have a still bigger several wool growers' and dealers' asare its local units.

Order Supplies Early

THE American people are not accustomed to the consideration of transportation difficulties in the purchase of needed

forced on them during the war, but there was a very general feeling that it was a temporary condition which would pass as soon as the war was over. But experience has demonstrated that transportation has its reconstruction problem, which is even more difficult of solution than the war transportation problem. Shortage of equipculties have conspired to aggravate this problem, until the movement of anything but necessities which have priority, has become an uncertain proposition.

This applies to certain farm supplies which are badly needed in many sections, notably, lime and fertilizer. Goods of this kind intended for fall use should be ordered at the earliest posery, lest their lack prove a further handicap in the season's difficult production plans.

Financing Wool Growers

RECENT developments in the wool market situation indicate that the woolen mill interests are going to make a deter-

directorate, of any County Farm Bu- in purchases by the public as a pro- were 980 pages devoted to the various make important modifications in the reau would find a trip of investigation test against the high cost of clothing interests of the farmers of the state. ize conditions in the east. to other counties where the work is is cited by the trade as the immediate In reviewing this volume to secure the well under way, productive of profit- cause for the big drop in wool prices material for the index which appears able suggestion for the direction of and the cancellation of orders for raw on other pages of this number, it was material by the manufacturers of found that approximately eight hun-Such trips would also make it pos- woolen goods. The circulation of this dred and fifty-seven subjects had been folk to New England ports.—American sible for the leaders of different coun- propaganda, together with the inac- treated, besides the liberal space deties to exchange ideas as to how the tivity of the wool market even at pres-voted to agricultural news, pictures, ties to exchange ideas as to how the tivity of the wool market even at pres-voted to agricultural news, pictures, ucts Company announce an advance in state organization can best function to ent nominal quotations, undoubtedly and market comment, which topics the price of milk for July.—Manufacaid them in their business undertak- means that wool growers must hold were either not counted, or indexed. turing concerns are anxious about the ings. This would undoubtedly prove their wool until the market is re-estab- During the period covered the farm-

membership standpoint, has of necessity been conducted by the state or of growers who were depending on have been treated under over one hungarization, the maximum of benefit to the receipts from their wool clip to dred different titles. The County Farm Polish troops suffer heavy reverses to the members cannot be derived from meet current expenses must finance Bureau work, the state organization the east of Warsaw, which information the state organization alone. Its large their operations in some other way, and the activities of the Farm Bureau however, is declared untrue by discovered to the state organization alone, its large their operations in some other way, and the activities of the Farm Bureau however, is declared untrue by discovered to the state organization alone, its large their operations in some other way, and the activities of the Farm Bureau however, is declared untrue by discovered to the southeast of Vinnitza, to the state organization alone, its large their operations in some other way, and the activities of the Farm Bureau however, is declared untrue by discovered to the southeast of Vinnitza, to the southeast of Vinnitza, to the state organization alone, its large their operations in some other way, and the activities of the Farm Bureau however, is declared untrue by discovered to the southeast of Vinnitza, to the

work out their own local business prob- tive steps to provide a plan for financ- In all, it is apparent that while this lems and to take a hand in the direc- ing wool growers on a large scale to journal has in a general way covered tion of the policy and activities of the enable them to await a re-establish- the field of current thought and work state organization if this organization ment of the market before disposing in Michigan agriculture quite complete-

The County Farm Bureau organiza- in Chicago to consider the establish- state have been most keenly interested tion in every county has a big job to ment of a fund of \$100,000,000 to ex- at this particular period. In this condo in this connection. Every member tend needed financial aid to western nection the editors wish to confess should aid in the accomplishment of wool growers. Reports indicate that that it would have been impossible to this job, and those in direct charge of Chicago bankers were inclined to view give this service had it not been for the job should keep in the closest pos- the proposition favorably if western the generous support and cooperation sible touch with similar lines of work bankers would give it general support, of the thousands of loyal Michigan being conducted in other counties. The fact that the adoption of such a Farmer readers for which they wish They should also aid in the direction plan would make Chicago a wool cen- here to express their very sincere apof the work of the state organization ter which would rival or exceed Bos- preciation. along lines which will be of the great- ton in importance augurs well for its

and more difficult job ahead of them sociations urged the necessity of im- IN an attack designed to aid Russian and they should not be called upon to mediate relief for the wool producing Soviet forces to cross the Dnieper, and they should not be called upon to mediate relief for the wool producing aid the county organizations in the industry, before the Federal Reserve accomplishment of things which the Board at Washington, on account of the international deep waterway and county organizations can do for them the present demoralized condition of power project on the St. Lawrence rivselves. The ultimate strength and val. the market. A credit plan which would er. ue of the state organization will de- enable banks to assist wool producers called upon to form a new ministry ne of the state organization will de-enable banks to assist wool producers Great Britain is sending additional pend very largely on the strength and by making loans on their product was troops into Ireland.—The Supreme value of the county organizations which advocated. The adoption of such a Court of Michigan decides that a plan through the aid of the Federal can establish practically any condition Reeserve Banks would go far toward it may desire relative to streets, side-Reeserve Banks would go far toward walks, drains and sewers in a plat be-saving hte situation and this may be fore the same becomes a part of the accomplished.

> A meeting of wool growers of Missouri, Arkansas, Kentucky and Indiana THE Washington authorities are was held at St. Louis this week, at was held at St. Louis this week, at seen that the wool growers of the cost the growers more to produce than designed to aid Soviet Russia. any clip ever shorn. If it has to be sold on the basis of present nominal THE Norwegian cabinet resigns as quotations it will be a blow to the indiate shrinkage of flocks and a consedetriment to the consuming public in no way compensated for by the possible cheapening of woolen goods by the present shrinkage in wool values, senger which are a minor factor in the present price of woolen clothing. Wool growers are entitled to the general support of bankers and of the government through the federal reserve banks in the present emergency.

Record Volume volume of the Michigan Farmer ever published in the more

by the directors of County Farm Bu-mined effort to get this year's wool a century during which it has been a at San Francisco will welcome the reau activities in every county. The clip at around fifty per cent of last factor in Michigan agriculture. In the League of Nations issue in the coming executive committee, if not the entire year's values. An alleged falling off-issues from January 1 to June 30 there campaign.—Great Britain is willing to

beneficial to the value and permanency lished on a legitimate merchandising ers of the state have been peculiarly bereau movement. While basis if they would avoid being interested in organization work. These of Detroit is 993,739, which places the initial organization work, from a "fleeced."

This means that a large proportion this volume since farm organizations of the country.

The period covered the farm-supply of industrial alcohol needed to carry on their operations.—The census of the state have been peculiarly bureau announces that the population interested in organization work. These of Detroit is 993,739, which place among the cities are faithfully reflected in city in fourth place among the cities of provers who were described by the state on of growers who were described by the state or of growers who were described by the state of the country.

ly, it has given special emphasis to good to the greatest number of Mich- Last week a conference of western those phases of agricultural work in wool growers and bankers was held which the progressive farmers of the

Tuesday, June 15.

Polish troops are again victorious.— New York is now actively opposing -The center party of Germany is

Wednesday, June 16.

was field at St. Louis this week, at an embargo on the exportation of coal.

—The Louisiana house of representatheir product until the market is re-tives defeats a resolution providing for established on a more satisfactory the ratification of the suffrage amendmerchandising basis. It will thus be ment to the constitution.—More than seen that the wool growers of the outdoor spactacle successfully presentcountry are alive to the situation and ed by five hundred Michigan Agriculare taking active steps to protect their tural students.—Chicago electric lines interests, as the merits of the case are asking for an eight-cent fare.—The well warrant. This year's wool clip sion at Montreal opposes resolutions

Thursday, June 17.

dustry which will result in an immediate shrinkage of flocks and a consequent shortening of the future supply of domestic wools which would be a lallan warships bombard Trionaro on the lallan warships bomba the Albanian coast.—One person is killed and three seriously hurt when the auto in which the victims were riding was struck by an Ann Arbor pas-senger car near Cadillac.—Arabs at-tack British ships on the Tigris river in Mesopotamia and kill the crews.

Friday, June 18. THE American Federation of Labor endorses government ownership of railroads by a very decisive vote.— United States Attorney-general starts THIS is the last issue of the largest volume of the Michigan Farmer ever publications of the Michigan Farmer ever publi ranging for the transfer of the Mexican railway to British owners.—Presthan three-quarters of ident Wilson in a special interview de-

Saturday, June 19.

THE United States Shipping Board will allocate 600,000 tons ping in order to carry coal from Nor firms purchase 14,000 tons of sugar in Argentine.-The Borden Farm

(Continued on page 976).

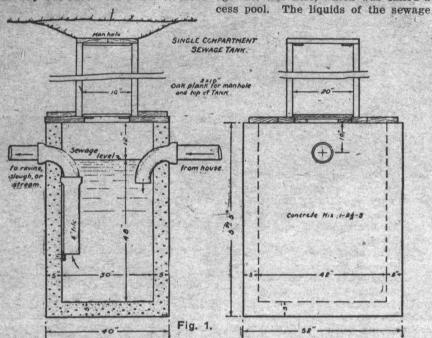
The Problem of Farm Sewage Disposal

By Professor L. J. Smith, author of "Sewage Disposal for the Country Home"

its cold raw winds and snow and indefinite time. slippery paths, many a farmer How Not to Dispose of Farm Sewage. vows that the family shall not pass an-

T the close of each winter, with aside to be taken up at some future

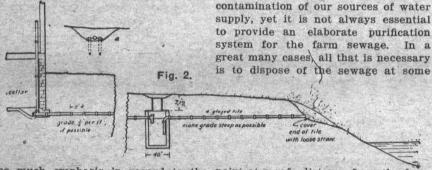
The old primitive method followed other cold season in the country with- was to dig a deep hole in the ground, out having the modern conveniences in at some distance from the house, box the home. And why not? One passes up the hole loosely, and run the sewthis way but once. All honor to those age into this hole, which was called a



modern conveniences does not mean the larger proportion of the sewage ing material, using a 1-21/2-5 mix. money thrown away for a passing which comes from the sink, wash bowl fancy. Not only are these advantages and bathtub. At least two hundred means of an elbow, or better still, a enjoyed from day to day; but they tons of water pass through the averconstitute a permanent investment age farm plumbing system annually. which adds to the value of the farm.

Obstacles in the Way.

Some hesitate in regard to installing the underground waters which supply a plumbing system in the farm house, the farm well, this method of sewage not being sure of the best and safest disposal is obviously unsafe. methods of disposing of the sewage. It may be that our bulletins have laid



too much emphasis in regard to the point at a safe distance from the farm necessity for purifying the large quan- the well towards the sewer outlet. tities of water that are dumped into the plumbing fixtures. Much of our literature on this subject has laid down

dangers of sewage disposal and the well and where the drainage is from

Since the cess pool contaminates all

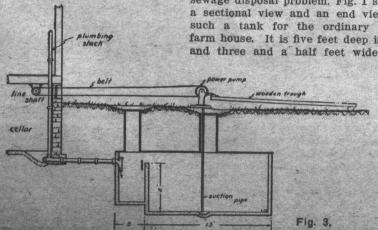
this liquid, and it all passes down into

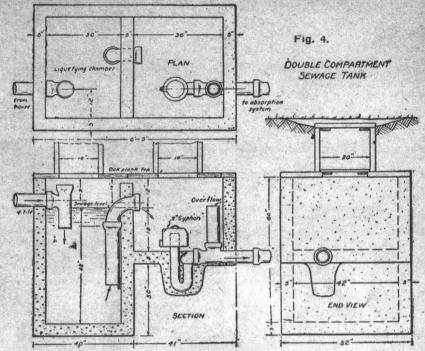
Safe Methods of Sewage Disposal.

While it is essential to avoid the

The Single Compartment Sewage Tank.

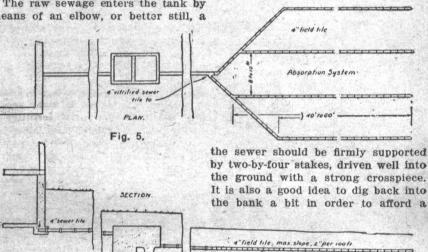
one hard and fast rule for this import- a hundred yards of a ravine or steep a liquid state. This takes possibly a result from such an arrangement. If ant problem—one type of tank and bank falling away to a low spot or month to fully develop. The tank does such a tank is used by a very large one method of handling the sewage stream or lake; and where the soil is not purify the sewage, it simply liquifarm home, the tank should be made after it leaves the tank, and the farmer not exceptionally heavy, a single com fies the solids. In order not to retard thirty-six inches instead of thirty inchreads and, not seeing its application to partment tank constitutes the easiest this action, disinfectants, such as carhis problem, lays the whole matter and cheapest method of handling the bolic acid, chloride of lime, etc., should sewage disposal problem. Fig. 1 shows not be thrown into the sink or other a sectional view and an end view of fixtures in any quantity. and three and a half feet wide and





two and a half feet long. It is not nec- from house to tank and on to outlet essary to use a concrete top. Oak of sewer is made by four-inch glazed plank will last indefinitely and is eas- sewer tile with watertight cemented ier to use than putting in a concrete joints. This tile must be laid to a unitop with the required form work and form slope, which can be easily done reinforcing. Then, too, the oak top with a hand level and ten-foot straightwho have pioneered on the new farms, passed through the cess pool, seeping can easily be removed, should it be-edge. For southern Michigan condibut the time has come for those in the into the surrounding soil. The solids come necessary to open up the tank tions it is well to have the tank covcountry to enjoy some of the results collected in the bottom, and there pu- at any time. This tank only requires ered with at least a foot of earth, and trified, contaminating the comparative- seven bags of cement and one and a for the tile taking the sewage from the To equip the farm home with all the ly harmless liquids which constitute quarter cubic yards of gravel for build- tank to be covered to a depth of at least eighteen inches. The outlet of

The raw sewage enters the tank by

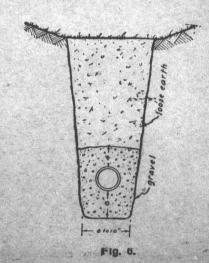


such a tank for the ordinary sized to liquify the solids as rapidly as posfarm house. It is five feet deep inside sible and run them through from the tank before any dangerous germs in the liquids have a chance to multiply. As often as a quantity of sewage enters the tank from the house, an equal quantity at once leaves the outflow pipe, passing down to the ravine or

Fig. 2 will give a better idea of the general layout. In this illustration there is no trap at the base of the plumbing stack, in which case a Tee is used where the sewage enters the tank to allow circulation of air from the tank up the plumbing stack and out through the roof. The connection

Tee, the object of which is to admit place for protection of the outlet from the liquid without disturbing the sur- frost. This is readily done by throwface of the accumulated sewage. The ing a couple of boards across this litsewage stands at a constant level, tle recess and covering same with a about an inch below the bottom of the little straw early in the fall. The early tile through which the sewage enters. snow will lodge on the straw and there As soon as the tank is filled with sew will be no danger from frost. Neither age a bacterial action sets up which will there be any danger from flies in In cases where the house is within reduces all the solid organic matter to the summer, nor will any bad odors

(Continued on page 966).





The Fine Home of H. F. Probert, Jersey Cattle Breeder.

went from Livingston county to visit quently produced on shy-bearing
County Agent Ballard, of Jackson coun-plants. If the practice of selecting
to find something new for large kernels is carried too far it dety, hoping to find something new for large kernels is carried too far it dethe readers of these travels. It need velops a strain of grain which will ly, or better prepared to join hands the community spirit in this pleasant ed some sort of a change for his own produce large and plump kernels, but with the State Farm Bureau, than the district of Jackson county. That the well-being, as well as for the sake of not many of them. That is precisely farmers in the vicinity of Parma. And entire program is working out successgetting the readers to realize that the what the farmers of Jackson county, it came about largely through the fully is plain when one visits the sucmoulders of animal form have nothing and the leaders at the Michigan Agri- building of a cooperative creamery, or- cessful breeders of field crops and on the plant breeders in the way of cultural College have been fighting ganized, financed and carried on by live stock, and studies at first hand enthusiasm and opportunities. With against. In their field work they have the farmers themselves. The history what they are doing to inject better the new seed department of the Mich- practiced the same methods which of this creamery is a thriller, a sort business methods into the curriculum igan State Farm Bureau to help them have proved so successful in improv- to be advertised across the horizon so of their farming, over the rough places the plant breed- ing the yield and uniformity of our that all uplifters, whether afoot or aers now have just as effective an or- corn crops. ganization for promoting their work as In other words, the system of head and absorb. Close students of the cothe live stock breeders have in their selection in small grain improvement, operative movement had better flock found some of the most interesting breeders' organizations.

In Jackson county one needs no microphone to catch the cheerful vibration of the grain breeders' enthusiasm. To make the story complete the Circuit Rider bumped into R V. Tanner and A. L Bibbins, from East Lansing, who were out looking over fields of pedigreed grain. He caught the idea and cannot help but use it as the key to this story. The vibration began to affect him at Parma and Albion, and now he can see volumes of study in the perfection of small grain plants. This plant breeding business is a great work, and what a wonderful thing it would be if this story could be told in such a way as to make other farmers realize the possibilities in making a better selection of their seed grains. The best he can do, however, is to explain in a sort of uninteresting manner what these plant breeders are doing for the farmers of Michigan and adjoining states.

JACKSON county leads the state in like ear selection in corn breeding, close to Parma for points—homespun the acreage and value of pedigreed gives proper consideration to factors points—on how to organize their comseed grains. The work started in the vicinity of Parma and Albion, and as the farmers saw the more perfect stands and increased yields the idea took root, until today there is a smaller percentage of inferior grain seed planted in Jackson county than in any other county in Michigan.

When J. Vernon Sharp became counago, he made grain improvement work may follow a modification of it, which ty agent, a little more than two years his trump card. How skillfully he played his hand is revealed by a ride other localities.

the largest and heaviest kernels of Plot D, and the grain from Plot B is grain for seed they would in time have planted in Plot E. The third year one

MERGING from an atmosphere to their benefit. After a few years' surcharged with live stock breed- work they ran up against this proposiers' enthusiasm, the Circuit Rider tion. Large kernels are more fre-

Our County Farm

The Circuit Rider Finds Agricultural Enthusiastic Growers of Quality

in the fourth year. This is essentially best in Michigan. the same system employed by success- As neighbors, friends and relatives farmers of other localities in their gan to breed registered Guernsey catwork with small grains.

straddle a bucking broncho, may read

ance of the seed from the plot is put concern and prices have been so uniinto Plot G, the seed from Plot D is formly good that competition has been planted in Plot H, and the seed from unable to disrupt the organization. It Plot E in Plot I. If the yield of the is largely through the example of this last plot is sufficient to sow the entire successful creamery that the farmers, field in the fourth year it is used, and business men and bankers of Parma the selection continued in the three have learned the value of cooperation plots, but if seed for a larger field is in threshing out their troubles and required selection may be continued making their community one of the

ful corn breeders. When these princi- began to meet and discuss their profples are applied to small grains they its and losses they began to become will increase the yield in as great a interested in community problems, and ratio as in the case of corn. This may to take a new interest in better dairy explain why the farmers of Jackson cattle, better crops and better methcounty have been so far ahead of the ods of farming. Pretty soon they betle and pedigreed seed grains. We have not the space in this story to

AT the two-hundred-acre farm of Lester Sedgwick near Parma, we field experiments with pedigreed grains being conducted in Michigan. One of these series of experiments in the selection of Rosen Rye began with the first bushel of that variety sent out by the M. A. C., which came to Parma. About two years later Mr. Sedgwick secured a few extra fine selected heads taken from an exceptionally good stand. The heads had hung in the office of the county agent for nearly two years, and had some advantage over later selections, inasmuch as they were more likely to contain no mixtures with other varieties. Mr. Sedgwick's first crop of grain showed six to eight per cent improvement in quality and purity. With this beginning he has been practicing careful head selection and gradually perfecting a strain of Rosen Rye that promises to establish his reputation as a breeder of pedigreed seed grains. He has also been experimenting with oats, his chief efforts being directed toward improving the strength and quality of the straw. At Lansing his exhibit of Rosen Rye won first in the open class last gives proper consideration to factors points—on how to organize their com- winter. In addition to breeding pediother than mere bigness of kernels, munities for business and social bet- greed grains Mr. Sedgwick is breeding registered Jersey cattle. He now ers select their seed from the largest For twenty years this creamery has has about sixteen head of females and and best filled and most prolific heads, sold its entire output of butter to one his herd sire, Eminent Golden Bob, is

The First Page Illustration

THIS picture shows the progressive agricultural leaders of Jackson county, who represent her seventeen hundred farmers. In the center of the front row is L. Whitney Watkins and second from the left is County Agricultural Agent Ballard. The executive committee of the Jackson County Farm Bureau consists of M. L. Noon, president, Gifford Patch, vice-president, Lyman B. Ray, James C. Thompson, Jr., Walter D. Rowe, Arthur Landon, Ed. Ford, H. F. Probert; the state delegates are J. C. Thompson, Jr., L. E. Landon, George Bretherton, and the county delegates from the several townships are: Blackman, Wm. Ottney; Columbia, C. F. York, Henry Cash; Concord, Marvin Woodruff, Clark Barrell; Grass Lake, H. A. Orvis, N. Smith; Hanover, Ed. Ford, Fred Folks; Henrietta, George Bretherton; Leoni, Frank Smith; Liberty, Gifford Patch, Jas. J. Smith; Napoleon, Clyde Cady, Norman Nichols; Norvell, W. H. Zimmerman, Charles Pittman; Parma, Carlton Horton, Joe Pulling, John Hoag; Pulaski, Glenn Folks, Frank Howard; Rives, Boyd VanHorn, Claire Darling; Sandstone, E. J. Fenn, Homer Hogle; Spring Arbor, W. L. Burruss, Herbert Anderson; Springport, A. L. Landon, John Banister, Lewis Elmer; Tompkins, Jay Town, Ernest Taylor; Summit, H. F. Probert; Waterloo, Walter Vicary.

Today these progressive plant breed terments. taking care that the plants have stalks and roots and leaf systems large enough to support them. It is impractical for the ordinary grain grower to select his seed by this method, but he

He may select any desired number, through the county inspecting the work say one hundred, of the largest and being carried on by progressive farm- most prolific heads. These must be ers. To give the readers a more ac-selected in the field in order that he curate understanding of the methods may select the earliest heads that rippracticed by the Jackson county seed en From these heads a selection of, growers it may be well to explain why say one hundred, kernels may be made their system of head selection of small and at the proper season planted in grains is much more effective than Plot A, and the remainder of the seed ordinary seed selection practiced in planted in Plot B. The following year one hundred of the best kernels from For years farmers have worked un- Plot A are planted in Plot C, and the der the assumption that if they used balance of the seed from the plot in that would produce large kernels, much C are planted in Plot F, while the bal-



a strain of wheat, rye, oats or barley hundred of the best kernels from Plot King Korndyke Oriskany Pontiac at the Head of the Boardman Herd, has that would produce large kernels, much C are planted in Plot F, while the bal Two Nearest Dams that Averaged 37.78 lbs. Butter in Seven Days.

Bureaus and Their Work

Agent Ballard and Jackson County's Progressive Farmers Crops as Well as Breeders of High Class Stock.

an exceptionally fine individual from swipe around Parma we the Hood Farm line of breeding.

Only a few rods further along the and-forty-acre farm of G. road we visited Carlton Horton, who W. Ray & Son near Alhas a fine two-hundred-acre farm on bion. Here were found a which he is growing sixty-two acres of herd of thirty-five regispedigreed Rosen Rye, fifteen acres of tered Guernseys, headed Wolverine oats, ten acres of Silver by the sire, M. A. C. King corn, and a small acreage of Pe- Dauphin, only son of Cartoskey Golden Russet potatoes. Mr. rie of Hillhurst, a cham-Horton also breeds Ohio Improved pion roll-of-honor cow of Chester White swine. In discussing the breed. Ray & Son his methods of plant breeding he said: have some exceptionally "In 1912 I secured the first bushel of good cows and young Rosen Rye that came into Jackson things in their herd. They county. From that bushel of seed I have been in business for secured thirty-five bushels of rye from years and their blood one acre of ground in 1913. I realized lines are well establishat once that this new variety of rye ed, as is evidenced by the possessed exceptional merit if it could appearance and striking pure in this locality."

grows no other rye, and scarcely any Rye seed from fourteen acres of rye, of the County Farm Bureau. He is wheat. Practically all of these grain growers are working in close harmony with the new seed department of the Michigan State Farm Bureau and the Agricultural College at East Lansing. Other farmers who are breeding pedigreed grains in the Parma district are W. G. Lines, A. S. Wilkinson, Howard Prine and Fred Sackrider, and their work is conducted along the same gen-

A few miles from Parma, J. C. Thompson & Son have a fine farm where they are breeding Hereford cattle and Percheron horses. They now have fifty purebred Herefords in their herd. J. C. Thompson, Jr., is a member of the executive committee of the County Farm Bureau, and an active booster for the farmer's interests. He also represents his township on the county board of supervisors.

Then there is W. E. Livingston, who has a fine two-hundred-acre farm where he breeds some of the best Poland China swine in the country. Mr. Livingston has the most popular blood lines in his herd and his stock is always kept in thrifty condition.

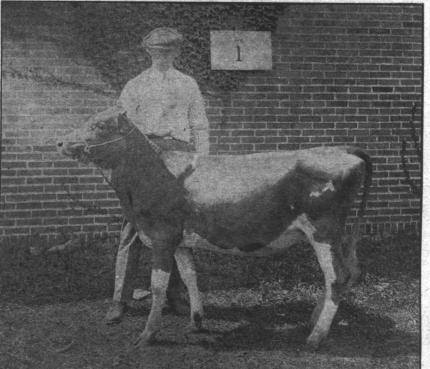
THE farmers of Parma are well organized for business. The Elevator Association did a business of more than \$400,000 last year. The officers and two years ago twenty-five acres of also supervisor from his township on Marter, Wm. Norton, directors.

After inspecting the fields of pedi-seed business.

visited the one-hundred-

be maintained pure. By persistent ef- uniformity of their young stuff, exceptionally good two-hundred-and- things coming on that would be a credfort I persuaded many farmers to grow They have one twenty-five-acre field twenty-acre farm on the R. F. D. from it to any herds in Michigan. this variety so that it could be kept of pedigreed Rosen Rye that presents Concord, and makes a specialty of a wonderful uniformity of development growing pedigreed grain on a large As a result of Mr. Horton's efforts of both plants and heads. Three years scale. He is a progressive farmer and the whole countryside around Parma ago they sold \$1,300 worth of Rosen a member of the executive committee B. Rice Seed Company, where new va-

Stables at the Boardman Farms.



Daisy's Greenwood Joy, from the Guernsey Herd of Hott & Son.

and directors are: Homer Hogle, pres- the same variety brought about \$2,500. the board of supervisors. ident; Frank Gilmore, manager; El- Mr. Ray has recently built a splendid J. J. Reilly and E. J. Lines have exmore Howe, H. C. Prine, George Van house for his son and taken him into cellent farms in the vicinity of Albion

greed grain and herds of cattle and Lyman B. Ray owns and operates an tion animals, and have some young

partnership in the Guernsey pedigreed and breed registered Guernsey cattle. They have purchased choice founda-

OVER at Grass Lake we visited the experimental farms of the Jerome rieties of vegetables are developed and tried out before being put out among commercial seed growers to grow seed for the company. George Starr, the plant wizard, conducted us over the farm and explained the methods practiced in testing out the varieties and strains for commercial purposes. Even the radishes on this farm have a pedigree as long as the finest Holstein in the land, and if you want to see what their grandfathers and great grandfathers looked like he can open the Radish family album and show you, and also tell you how much they weighed and if their complexion was fair or muddy. The farm consists of eighteen hundred acres and employs from seventy to one hundred men. In addition to his work managing the farm and conducting a vast amount of experimental work, Mr. Starr finds time to work out a few grain improvements and help his neighbors in their cooperative undertakings.

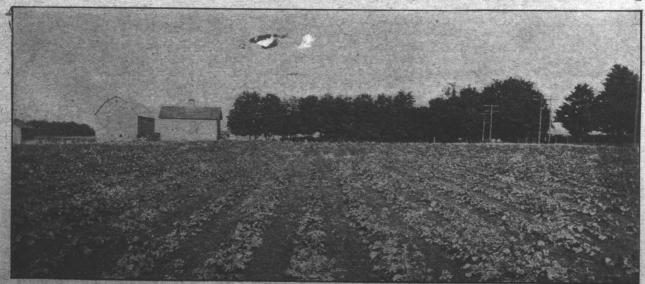
Walter D. Rowe, a member of the executive committee of the County Farm Bureau, maintains a herd of fifty registered Holstein cattle on his two-hundred-acre farm near Grass Lake. Mr. Rowe is a progressive farmer and breeder and has an "ace high" standing in his community. He has a vision of great things as the Farm Bureau develops some of its big projects and is one of the real leaders in the Jackson County Farm Bureau.

W. W. Kennedy, of Grass Lake, has gained a wide reputation as a breeder and exhibitor of Polled cattle and Duroc Jersey swine. For a number of years his Red Polled cattle have been prominent among the winners at the big fairs in Michigan. At present he has about thirty-five head on his onehundred-and-sixty-acre farm.

The farmers around Grass Lake are pretty well organized for business. The Elevator Association organized last August has done a business of more than \$125,000 since that date. The officers and directors are: George Starr, president; Clarence Woolfinger, manager; John Noon, Norman Davis, William Greenwood, Frank Shelley, A. H. Cain, W. Alber, E. W. Hobart, Irvin Kallenbach, directors.

The Shipping Association has handled about \$125,000 worth of live stock the past year. The officers and directors are: Norman Davis, president; Wm. Greenwood, manager; W. K. Krafts, M. L. Noon George Fry, George Dorr, Henry Mellencamp, directors.

Over near Hanover, William Folks (Continued on page 972).



At the Rice Seed Farms-Jackson County Has Become Famous for the High-grade Seed Produced on Her Farms.

Impressed With Agriculture's Need

National Security and Prosperity Are Dependent Upon the Faithful Recognition of Agriculture's Basic Claims for Class Cooperation

middle west, after several years' called. experience in preparing their inciently meet the special requirements ments was held in Baltimore at which mand prompt action. of the farmers.

The principal point at issue is to pro- tives was the principal speaker. which is known as the accrual or inthe change is made.

The Iowa Farm Bureau Federation, working in cooperation with the American Farm Bureau Federation, has developed a farmers' account book which it is hoped will meet the approval of the treasury department and be adopted by Farm Bureau members throughout the United States. It is believed that this will be a decided step in advance, and will greatly simplify the matter of making income tax returns on the farms. Objections have been raised by the treasury department officials to some of the changes in the present plan of making returns, proposed by the farmers, but the members of the Iowa committee still hope that a satisfactory solution will be worked out. The Federal Department of Agriculture is fully in accord with the Iowa farmers in their plans for simplifying and making more practicable the income tax returns system.

In a report to N. P. Hull, president of the National Dairy Union, A. M. Loomis, secretary of the union, says: "I have to report the adjournment of congress without action so far as I can discover in any way detrimental to the interests represented by the National Dairy Union. Only two bills have been introduced during this session of congress to permit the coloring of oleomargarine in imitation of butter. These were the Dyer bill and the Sabbath bill. Neither of these bills proceeded beyond a reference to the committee on agriculture." It must be understood, however, Mr. Loomis says, that the adjournment of congress did not kill these bills. They will be before the committee when congress resumes work next December, as will all other bills pending in committee. zations headquarters in the federal capMr. Loomis, who was recently appointial; that the continuous contact of by Chairman J. W. Good, of the house ters of population during the long cold the farm leaders with representative appropriations. ion, succeeding the late W. T. Creasy, the farm leaders with representative appropriations committee, a total of months of the coming winter. It is not is assistant to T. C. Atkeson, Washington representative of the National mittees, at which they have been able ended June 5. Of this amount \$4,373, farms are amply able to provide food to present the farmer's side, has given 395,279 is for government expenditures enough for their own needs, but the street in the National Grange Washstreet in the National Grange Wash- senators and congressmen a more in in the fiscal year beginning July 1, and surplus products that must be producington headquarters.

tions has been called on June 25, by for the farm folks better treatment at received \$855,956,962 for the next fiscal quate supply of farm labor working Federal Commissioner of Education P. the hands of the government. P. Claxton, to follow up the citizens' The fact that a large political party the other civil functions of the govern- ing and harvesting seasons. It is not conference on education recently held has declared in favor of giving farm- ment during the same period. Agricul- yet too late to lend material aid, but in Washington. Facts were presented ers the right of collective marketing, ture, America's greatest industry, gets help must come promptly to be of at the citizens' meeting showing an and protection against discrimination, \$31,712,784, while \$10,040,655 was ap-value. appalling situation as regards the pub- the authorization of associations for propriated for the conduct of Indian "The exigency of the situation relic schools, especially those in the the extension of personal credit in fa- affairs. country, and it is for the purpose of vor of putting an end to unnecessary Some of these figures are amazing ed to this matter at once. Everyone considering the rural school problems price-fixing are evidences that the in their magnitude, and others in their

ANY farmers, especially in the that the second conference has been farmers are making progress in the insignificance. They are most interestdevelopment of effective political influing, however, when used as the basis The Plumb plan propagandists main- ence. Interviews with farm leaders of comparisons. Food and clothing come tax returns, have arrived at the tain headquarters in Washington, and give evidence that they are going to material production may be the most conclusion that there is room for im- are making an extensive campaign hold the political parties to their prom- important question before the public, provement in the methods of making for the promotion of their scheme of ises; that there is to be no crawfish- as the economists are saying, but there the returns. A committee from the government-labor ownership and oper- ing with farm legislation when con- is no evidence of its importance in the Iowa Farm Bureau Federation was in ation of railroads. Apaprently in close gress meets in December. The Vol- congressional appropriations. In view ury department of agriculture, with the Council, and the American Federation farm and personal credits legislation the United States Department of Agpurpose in view of securing the adop- of Labor. Recently a meeting of farm- will be the three leading measures up- riculture is justified in its complaint tion of a method which will more effi- ers, railroad employes and other ele- on which the united farmers will de- that it has received parsimonious treat-

tive of the American Farm Bureau present year's appropriation, and \$6,-At this meeting the Non-partisan Federation who has just returned from 000,000 less than the department's es vide an equitable means of changing State League of Maryland was form the middle west, tells me that the timates. The abandonment of hog cholthe farmers and labor organizations ship, and is extending its cooperative cow-testing associations work in Ohio, the farmer who started making re-

Washington recently conferring with affiliation with them is the Non-par-stead-Capper farmers' collective bar of the bilions of dollars appropriated the income tax division of the treas-tisan League, the National Farmers' gaining bill, packer regulation and for other purposes, it is evident that ment from congress, when its approa Plum plan headquarters representa- Gray Silver, Washington representa- priations were cut \$2,185,000 below the the farmer's returns system from what ed. Other meetings will be held at Farm Bureau movement is making a era eradication work, and withdrawal is known as the cash plan to that which efforts will be made to organize very satisfactory growth in member from financial support to cooperative the farmer who started making reard, with the evident purpose of gain- plan of pooling wool has saved the Pennsylvania, West Virginia, Rhode turns on the cash basis cannot change in a fastbald for the North Pennsylvania and the Pennsylvania are saved to provide the Pennsylvania and the Pennsylvania are saved to provide the Pennsylvania and the Pennsylvania are saved to pennsylvania are saved to pennsylvania. ing a foothold for the North Dakota sheep raisers any thousands of dollars. Island, Connecticut and New Jersey, over to the inventory basis without be-movement in the east, and incidental- In New York and Illinois the pooling of on account of the reduction in appro-ing penalized in the form of greatly inmg penanzed in the form of greatly in-ly promote the Plumb plan scheme. So wool under the supervision of the priations will be severely felt by the far I have failed to find any appreci- County Farm Bureaus has been car- dairy interests of these states, according to the department's dairy specialists engaged in this work. Friut growers are regretting the government's curtailment of its market news service.

> MEMORIAL signed by T. C. At-A keson, of the National Grange, Gray Silver, of the American Federation of Farm Bureaus, and R. F. Bower, of the Farmers' Union, has been presented to President Wilson, calling his personal attention to "a most critical situation now confronting the peo-ple of the nation." "The flow of labor from the farms to the cities," says the statement, "has proceeded to such an alarming extent and has so depleted the man-power of our farms that the resulting decrease in crop production seriously menaces the nation's food supply. Without labor to carry on essential operations the farmer has no alternative but to either cut down his acreage to the amount that he himself can crop by working twelve to fourteen hours a day, or to let his farm lie idle and follow the crowds to the high wages of the city. Hundreds of thousands of farmers in all sections of the country are finding themselves forced to accept one or the other of these able sentiment among Maryland farm- ried on successfully for several years, alternatives. Thousands of empty farm ers, either for the Non-partisan League and this year the wool growers of sev- houses are to be found in every state or the Plumb plan of government rail- eral other states are pooling their and literally millions of acres of farm wool, having found it to be a satisfac- lands are lying idle this season. Un-LOSE observers of men and move- tory method of disposing of their wool, less immediate relief can be effected CLOSE observers of men and move the new move of the American Farm in the farm labor situation we will ments here at the capital credit The new move of the American Farm in the farm labor situation we will Washington representatives of the na- Bureau Federation in establishing de- soon be beyond remedy, so far as the tional farm organizations with having partments of agricultural economics, present season is concerned, and face been in a considerable degree respon- transportation and publicity, and to en- to face with what leading agricultural sible for the quite liberal space given large the work of the Washington of economists believe will be the greatto the farmer's demands in the Chi- fice, is looked upon as a decided step est scarcity of foodstuffs ever experi-

have come from locating farm organi charge of the department of economics. looks ahead to the situation which will the hearings before congressional com- sixty-sixth congress during its session pinch of hunger. The people of the telligent view of the agricultural situ- \$486,495,048 is to meet deficiencies for ed to feed and clothe the cities' mil-A conference of national organiza- ation, and that this is certain to secure the present year. The army and navy lions can only be provided by an adeyear, leaving \$977,319,916 to meet all early and late throughout the cultivat-

quires that public attention be direct-(Continued on page 975).

Why Not Exterminate the Mad Dog?

R ABIES or hydrophobia is a specific, communicable disease affecting all warm-blooded animals, including man. The dog is especially susceptible, and because of his roving habits is the chief disseminator of the disease.

The bite of a rabid animal is not necessarily fatal; the virus is estimated to be transmitted in about thirty per cent of cases. But when the disease is contracted and not treated it is practically

The Pasteur treatment prevents many fatalities, but even with this there is much anxiety, suffering, hardship, and expense.

Rabies can be transmitted only by animals that are actually diseased at the time. There is no foundation for the belief that persons bitten by a dog which subsequently becomes rabid may contract the malady.

This terrible disease is all too prevalent in the United States, in spite of the fact that its suppression is comparatively simple. The problem is solved when the rabid dog is eliminated. This is proved by the experience of some other countries, notably Norway, where the disease has been entirely stamped out.

A similar result might be brought about in this country, with the cooperation of the states, by licensing all dogs, by muzzling all dogs not otherwise kept in restraint, and through rigid inspection and quarantine at borders and ports of entry.

way ownership.

cago platform. Thy say that this is forward. The officials are now look- enced in America. one of the most important results that ing for a competent man to place in "Our appeal for more farm labor

Pioneer in "Coop" Business

By J. A. Kaiser

those at Quincy and Coldwater, are influence. now doing a much larger business, but The picture of Litchfield, the home and leading in the cooperative move- briefly drawn, that it may furnish in-

about a better understanding between and rural districts. In far too many too, Litchfield is a pioneer. Farmers ment, and finally, retrogression. In with enthusiasm, into the new enter-ing districts and of the small towns prise. Its influence has already made are virtually identical. The eliminaitself felt along progressive lines.

merce, town folks and farmers are erative concerns, created at first, a pulling together. The chamber has spirit of antagonism in many sections. show of being the first in this section, meaning of cooperation become apparsystem. It is the spirit of cooperation business to meet the new conditions. that will put across at last, the consol- The wise ones will get in line and codistricts must unite in this effort to town is not sealed, as some have prechange the school system. Without dicted. We must have them still, no avail. In her chamber of com- abiding features of our farming dismerce, Litchfield has a splendid work- tricts. To what extent the business of ing organization which will, ultimately, these towns, in the future, will become accomplish the desired results.

Not only with the consolidated school ulation. problem, but with other innovations as But out of the uncertainty that acwell, the chamber of commerce has complishes innovation, looms this exercised a decided influence. The truth: Cooperation is the better way. building of a stretch of federal-aid Any movement which has for its obhighway has been favored and mate- ject the promotion of a better underrialized by the organization. Organiz- standing between farmer and business ed effort for community betterment- man, is worth while. Litchfield's chamthis is the keynote of Litchfield's co- ber of commerce is an illustration in

This glimpse of a truly cooperative Do things. Cooperate.

MONG the localities which the community would not be complete cooperative movement has put on without a mention of the Litchfield the map, Litchfield stands easily, Farmers' Club. This organization in the forefront. The Litchfield cream- stands for enlightenment and progress; ery is the largest cooperative cream- for social advantage; and for commuery in Michigan. Its phenomenal suc- nity uplift. The club is primarily, for cess has been set forth in a recent farmers and their wives. The meetissue of this journal. The Litchfield ings held each month, at the homes Cooperative Shipping Association is of members, combine social enjoyment the oldest organization of its kind in and the profit that comes from an inthe state. With an annual business terchange of ideas. Questions of inin live stock of a quarter of a million terest are discussed; entertaining prodollars, it is demonstrating in its own grams are rendered; good dinners and way, the feasibility of the cooperative good social times are enjoyed. The idea. Other shipping associations like club has grown in popularity and in

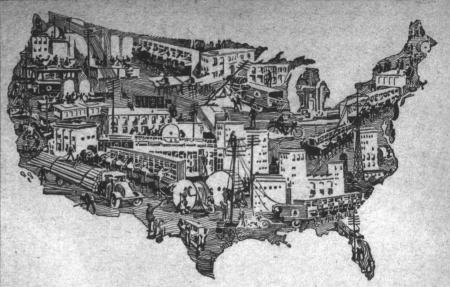
Litchfield was the pioneer, inspiring of the cooperative idea, has been thus spiration and example for other com-Out of these successful cooperative munities. In these days, organization ventures has grown, in recent months, alone can accomplish things worth another progressive feature. This is while. Cooperation is the solution of the Litchfield Chamber of Commerce, many of the perplexing problems that organized for the purpose of bringing confront the residents of small towns business men and farmers. In this in- cases, business men in the villages, stitution, cooperation is the keynote, and farmers of the locality, are pulling Towns in the village rank do not often against each other, not together. This have chambers of commerce. In this, means wasted effort, lack of achieveand business men alike, have entered many ways, the interests of the farmtion of a very small class of local mid-As a result of this chamber of com- dlemen, by the establishment of coopgone on record as favoring consolidat- But for the most part, this feeling is ed schools. Litchfield stands a good dying out, as the real purpose and real to establish the consolidated school ent. The small town must readjust its idated school program. In many town- operate, rather than buck against the ships, the small town and the farming inevitable. The doom of the small this cooperation, agitation will be of changed, perhaps, in many ways, but cooperative, is still a question of spec

point. Get together. Pull together.

Cheering Up the Community



Here is a Grange sextet that is widely known as the arch enemy of Dull care. Without question the medical profession has lost many calls and the people have avoided a corresponding number of bills just because this little group was able to make them laugh, to jiggle the liver, to tickle the spleen and to get the digestive and nervous systems back to normal.



The laborer is worthy of his hire

All service is worthy of its hire and good service cannot be continuously obtained unless adequately rewarded.

From the beginning of telephone history the American public has received the best telephone service of any country in the world. In proportion to the service rendered the people have paid less for this telephone service than any other country in the

The reason why the American people have received the highest type of telephone service at the least proportionate cost is because the Bell System has been operated on a scientifically economic basis.

Every device which inventive skill, engineering ability, labor and time saving talent has been able to create; every efficiency known to buying, operation, executive control and financial conduct has been employed.

Public service companies feel the high cost of living as well as individuals. Pay them enough to make possible their giving good service. There is no permanent saving in poorly paid service.

In this land of opportunity none of us is willing to jeopardize his success or happiness by stinting the payment necessary to secure the most healthful and efficient service.



AMERICAN TELEPHONE AND TELEGRAPH COMPANY AND ASSOCIATED COMPANIES

One System

Universal Service

Use good judgment in meeting the high cost of living

Coffee prices are way up Posturi sells at the same fair price-Why not drink

INSTANT POSTUM

Instead of coffee as many are doing Atable beverage of coffeelike flavor.

Better for health-At lower cost

Sold by Grocers Everywhere

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



how much will your tractor be worth next

WILL depreciation reduce its value \$200 or \$1000?

Look to the oil you use for the answer. Faulty lubrication cause more costly tractor troubles than any other one thing.

Our experience of 44 years in the oil business is worth money to you whether you operate a tractor, truck or motor car. We can give you facts which will ma-terially lesson depreciation and extend your engine's life. Let us tell you how to keep your machine running and avoid most troubles due to lubrication. Send a post card now-don't delay-every day adds to your depreciation cost.

The Globe Refining Company, Cleveland, Ohio.





SAVES YOU MONEY
Buy direct and save 310 to 320 on
a bicycle, RANGER BICYCLES
now come in 44 styles, colors and
sizes. Greatly improved; prices reduced. WE DELIVER FREE to you
on approval and 30 days trial,
actual riding test.
EASY PAYMENTS if desired, at
a small advance over our Special
Factory-to-Rider cash prices.
TIRES, lamps, wheels, parts,
supplies at half usual prices.
Do not buy a bicycle, tree, or
sundries until you get our big
free Ranger catalog, low prices
and liberal terms. A postal
brings everything. MEAD GYCLE COMPANY



2 DISHES FOR HARVEST Direct from Pottery to You
plete 100 Piece Dinner Service for Serving 12 Persons
Factory Thirds Not Selected

Please mention The Michigan Farmer when writing to advertisers.

News of the Agricultural World

BELIEVES IN CENTRAL FRUIT, showing that not only the wool grow- the annual wool clip of the country, EXCHANGE.

orchard owners.

getting mutual benefits.

ery detail of operation cannot be iron- zations in demanding the enactment ed out in advance."-H.

tries are going to insist on the passage Chicago the nation's wool center. CENTRAL agency for marketing of a pure fabric law. The inferior Chicago bankers were inclined to all the fruit raised in Michigan is quality of goods manufactured at the view the proposition favorably, it was urged by I. T. Pickford, specialist in present time was one of the important said, provided they were given the horticultural extension at M. A. C., subjects discussed at this meeting, and support of the western bankers. Bosin his latest monthly news letter to some interesting facts were disclosed ton has been forced to relinquish its in connection with the manufacture of hold on this financing because of the "A central agency with a kick to it modern fabrics. For instance, tin, present tight money market, speakers like our own Potato Growers' Organi- brass or other minerals are put into said. zation or the California Fruit Grow- silk fabrics to give them a richer ap- It is reported that Boston banks are ers' Exchange can do business a single pearance, and corn starch is used to also finding themselves unable properlocal cannot. It can help stabilize mar- make the table linens heavy. When ly to take care of the leather market. kets by regulating distribution, stimu- washed the linens will be like cheese The American Wool Growers' Assoing, and labeling. It could become a is put into rugs. The laundrymen who relative to the meeting: spoke in the great Farm Bureau wheel are coping with this situation have a so that we fruit men would roll along difficult task, for owners of clothing market soon will be reopened on a reawith the whole agricultural industry, supposedly ruined in the laundrying sonable basis of value. In the meanprocess will not be convinced that it is time, growers will be able to obtain "I am perfectly aware of the sore because of inferior material and sub- loans on unsold wool from banks that spots in the anatomy or maybe the stances which enter into its manufac- are members of the federal reserve mind of a potential combination. But ture. It is more natural to suppose that system. Federal reserve banks will I am just adventurous enough to be-machinery touches the goods or that not fail to rediscount any paper that lieve that there is a treatment strong acids are used in the cleaning. The is presented in proper form. The whole enough, and yet mild enough to do the convention decided that this problem matter is to be discussed fully with has grown so large that action on the the federal reserve board. There need "This office wants to get the names part of laundrymen has become neces- be no disposition on the part of growand addresses of all bona fide fruit sary, and it is believed that with the ers to sacrifice their wools at prices men and others who believe in work- proper efforts the laundry interests below intrinsic values, or to consign ing for a good thing, even though ev- can be lined up with the farm organi- them on low rates in advance."

of the French bill. The sheep and wool growers' asso-RURAL CONFERENCE AT M. A. C. ciations were pioneers in promoting the truth-in-fabric movement. They WENTY-THREE men of note in now have the backing of all the farm the religious world, a great many organizations, the Cotton States Marof whom are specialists in country keting Board, National Consumers' problems, will form a galaxy of speak- League, and several retail clothiers' and laymen in connection with the merchandise disbranding bills before

ers and consumers, but large indus- which plan, if successful, would make

lating demand, standardizing on grad-cloth. It was also asserted that jute ciation issued the following statement

"It is fully expected that the wool

FRUIT EXPRESS RATES REDUCED.

PPLICATION of the American Railway's Express Company for permission to file a schedule providing for reduced rates and refrigeration charges on berries, fruits, melons and vegeers at the rural conference of pastors associations. At the hearings on the points to points in Connecticut, Illinois and Massachusetts has been approved by the Interstate Commerce Commission. While the complete new schedule has not yet been filed, it was said at the commission that the reduction would amount in some cases to thirty per cent of existing rates.

PROMISES TO RATION SUGAR.

PROMISES that the Federal Sugar Company would fall in line with the American Sugar Refining Company and see that canners and preservers get their proportionate share of sugar and that housewives will also get their supply, were made recently by Claus Spreckles, president of the company.

PLAN CHAMBER OF AGRICUL TURE.

PLANS for the organization of a National Chamber of Agriculture at the recent annual convention of the American Association of Agricultural Editors. Secretary Meredith addressed the fifty or more editors gathered

TO COOPERATE WITH SUGAR BEET GROWERS.

THE fight of the Sugar Beet Growers' Association to win a new truth-in-fabric bill. The people are begnning to demand the truth in regard to the contents of the clothing they are buying, whether it is made wholly favor.

The best planting season has ended and the normal beet acreage in the state has been cut this year, practically in half, as a result of these tactics. Michigan State Farm Bureau reprethe Sugar Beet Association this week and announced to them that the Farm THE establishment of a fund of Bureau was prepared immediately to \$100,000,000 to extend financial aid commence a campaign for the benefit

National Crop Report

THE estimated total yields of leading crops now growing in the United States, as made by the Bureau of Crop Estimates, are given in the following table with the corresponding yields for 1919 and the average for the years from 1914 to 1918 inclusive:

1920.	- 1919, Dec.	1914-1918.
Bushels.		Bushels.
504,000,000	732,000,000	563,000,000
277,000,000	209,000,000	259,000,000
781,000,000	941,000,000	822,000,000
1,315,000,000	1.248,000,000	1,415,000,000
185,000,000	166,000,000	215,000,000
80,000,000	88,500,000	59,900,000
112,000,000	109,000,000	99,300,000
199,000,000		203,000,000
45,000,000	50,400,000	47,500,000
	Bushels: 504,000,000 .: 277,000,000 .: 781,000,000 .: 1,315,000,000 .: 80,000,000 .: 112,000,000 .: 199,000,000	Bushels. Bushels. 504,000,000 732,000,000 732,000,000 209,000,000 209,000,000 1,315,000,000 1,248,000,000 185,000,000 166,000,000 88,500,000 112,000,000 109,000,000 119,000,000 147,000,000

summer school at M. A. C. from July the house interstate and foreign com-

New York City, church and country the French bill, but it was plainly seen Chamber of Commerce were discussed life director, and its purpose will be by those who attended the hearings to arouse interest in the work of the that there was need for education on community. Men who attend the con- the part of the public generally in reference will board and room in Wells gard to the necessity for legislation

POPULAR.

the truth in regard from virgin wool or in large part from shoddy, and they are no longer satisfied with the dealer's statement that \$100,000,000 SOUGHT TO FINANCE sentatives met with the directors of the goods are "all wool." The Minnesota and Wyoming republican state conventions have endorsed the French truth-in-fabric bill, and the Boise, Idaadopted a resolution in its favor.

Laundrymen's Association at its re- of western bankers and sheep ranchers. cludes efforts to establish cooperative cent annual meeting in Rochester pre- Chicago bankers were asked to dis- sugar beet refineries in the sugar beet

merce committee, last winter, repre-The conference will be under the sentatives of the farm organizations direction of Dr. Warren H. Wilson, of presented a strong case in favor of Hall, college dormitory.—Henshaw. compelling the branding of fabrics so here for the three-day meeting. as to enable the purchaser to know TRUTH-IN-FABRIC BILL BECOMING their true contents. It will be the work of the friends of truth-in-fabric legislation between now and the win-ONGRESSMAN Burton L. French ter session of congress to discuss the tells me that there is a rapidly subject as public gatherings and in the growing sentiment in favor of his papers, to bring it to the attention of

WESTERN WOOL GROWERS.

ho, chamber of commerce recently to western wool growers, awaiting the of the growers in 1921 along lines difre-establishment of the wool market, ferent from those followed this year The action of the New York State was considered at a recent conference by the beet association. The plan in-

sents a new phase to the subject, place the Boston banks in financing territory before the fall of 1921.

A Small Farm Home

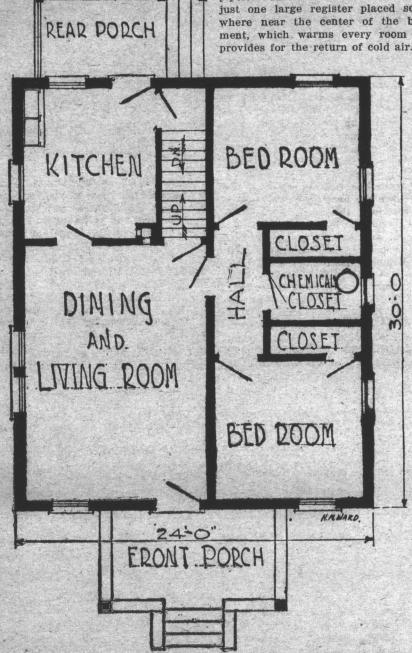
By Harley M. Ward

make farmers of his children. The city home. The chemical kills germs, her home.

A glance at the floor plan of this lit-

THIS little four-room bungalow will the floor plan. The chemical closet adorn any farm, as it is suitable can be installed in any room in the where only the farmer's family is to house. It may be curtained off in the be housed or it will make a very good bedroom. It may be placed in a clothes tenant house. An attractive and com- closet. It gives to your home the same fortable home may not only keep the finishing touch of modern equipment tenant on the farm, but it will help to that a water-flush closet does for the tenant's wife often casts the deciding making the closet sanitary in every vote as to whether they stay on the way. The contents are emptied, say farm or not. She is sensitive about once a month, and may be disposed of anywhere as they are harmless.

A warm-air system of heating this tle cottage shows a sensible, conven- house could be installed for about \$150 ient arrangement. The kitchen is par- and would soon pay for itself with the ticularly worthy of notice. See what saving of fuel. A small house, cottage a sunny, pleasant room it is, with its or bungalow can be heated very ecotwo windows and the glazed rear door nomically in the matter of fuel, labor and absence of dirt, by the use of the pipeless furnaces. This furnace has just one large register placed somewhere near the center of the basement, which warms every room and provides for the return of cold air. As



to give light. The sink can be placed the pipeless furnace has two jackets right under a window, where it will be outside the firepot, there is absolutely flooded, with sunlight. It has wall no loss of heat in the cellar or base space for a large cupboard, with which ment. a pantry is not necessary. Everything There are several kinds of materials

into this room, yet not a bit of space or hollow tile. is wasted

in the summer.

have provided a small room for this in years without any attention.

is so designed and arranged that the that this house can be constructed of housewife can do her work with the -wood, concrete blocks, or hollow minimum of time and energy expended. clay tile. Wood is the most common-The living and dining-room are com- ly used because of the ease with which bined, giving a spacious, well-proportit is worked into a finished building. tioned room instead of two cramped But if a wood building is well conones. Note the convenient arrange- structed the costs would be the same ment of rooms, which gives a door whether constructed of concrete blocks

The roof in all cases will be of wood The bedrooms are of good size, and 2x4 No. 1 Y. P. rafters, 16 or 24 There is a nice, large closet, and two inches on center, sheathed with 1x4 large windows securing cross ventila- roof boards, No. 2 lumber spaced two tion. This insures cool sleeping rooms inches apart if shingles are used. If prepared roofing is used, 1x6 dressed There are a great many little con- and matched boards will be required. veniences that should be installed in A heavy three-ply prepared roofing every house. The chemical closet is covered with crushed slate will give a gaining new friends every day and we good roof for twenty to twenty-five



Every farm needs some of these tools

A good, well-balanced Disston Saw that cuts through tough, knotty wood with a clean, straight cut; a hand-fitting screwdriver with a strong, serviceable blade; a trowel-any of the Disston Tools that put the burden of the work where it belongs-on the tools, not on the muscles of the man.

Good dealers everywhere sell Disston Tools. Send for our free booklet, "Disston Saws and Tools for the Farm." Address



HENRY DISSTON & SONS, Inc. General Offices: Philadelphia, U.S.A.



0) 55 0



Blast out those Stumps and Boulders with Dynamite. Magazines in all parts of United States. Write us for prices. ACME EXPLOSIVES CO. Terre Haute, Indiana. -if your stock is not thriving, try

Big Four Stock Salt

at our risk. It is a tonic conditioner and worm remover, composed of eleven of the finest medicinal ingredients known to modern veterinary science. It is an aid to digestion and will help your stock put on flesh rapidly at this season of the year. Invaluable at the calving period. Prevents losses of sheep, lambs and pigs caused by worms. Guaranteed to give satisfaction or your money back.

15 pound pails \$1.50, 40 pound pails \$3.00 100 pound kegs \$6.50



We prepay the freight on 100 lb. kegs. The other si-zes may be sent by parcel post or ex-

Eastman Salt Products Co. Saginaw, Mich.

Milkolinefor

W. H. Graham of Middleton, Mo., says in an actual test that \$30 worth of Milkoline made him an extra profit of \$420. Hundreds of others rom coast to coast say the same thing.

Hustles Heavy Hogs to Market MILKOLINE MFG. GO. Kansas City, Missouri.

LEARN AUCTIONEERING

Seed Potatoes For Sale Potato



This Trademark is Your Protection

Perhaps You are Worth a Lot More Money Than You Think You Are

Many Michigan Farmers who have taken recent inventory of their buildings and household goods have been astounded to find out how much they were really worth.

These business men realized they were not carrying half the insurance they should have and that in case of fire it would be impossible to replace property with the high cost of material and labor.

Have you taken this same precaution? If you had a total fire loss today, could you rebuild and replace your household goods? An additional policy with the Peninsular Fire Insurance Company will protect your property on the same basis city property is protected. All protective improvements and building locations are rated accordingly. This will give you the protection you need and will not interfere with the policy you now have.

And remember: the Peninsular Fire Insurance Company is one of the largest insurance companies in Michigan, and backed by men you

Write today for rates. Also cover your growing crops against HAIL and WINDSTORM.

Address Farm Dept.

PENINSULAR FIRE INSURANCE CO..

OF AMERICA

Capital, \$1,000,000.00

GRAND RAPIDS,

MICHIGAN

-Property Properly Protected



ABSORBINE STOPS

from a Bone Spavin, Ring Bone, Splint, Curb, Side Bone, or similar troubles and gets horse going sound. Horse Book 9 R free

delivered. Horse Book 9 R free.

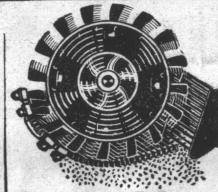
ABSORBINE, JR., the antiseptic liniment for mankind, reduces Painful Swellings, Enforcements, Wens, Bruises, Varicose Veins; heals Sores. Allays Pain. Will tell you more if you write. \$1.25 a bottle at dealers or delivered. Elberal trist bottle for 10c stamps.

W.F.YOUNG. Hea.. 258Tample 81. Springfield, Mass.

FOR HORSES, CATTLE, HOGS







Most threshers wait for the grain to drop out. Here is the thresher that beats it out and saves enough grain that others would lose to pay your thresher bill. The big cylinder throws grain and straw violently against the "Man Behind the Gun," and Beating Shakers keep tossing and beating the straw until the last kernel is saved. Look for the man with the Red River Special in your territory and have him do your thresh-ing this year.

If interested in a thresher for individual us about our "Junior" Red River Special.

Write for Circu NICHOLS & SHEPARD CO centinuous Business Since 1848 clusively of Red River Special Three Stackers, Peeders, Steam and Oil Gas Traction Engines Battle Creek, Michigan



It seems to be well constructed and is lined with tar paper, but water freezes solid in cold weather. The house is 30x14 feet, with a cement floor. There are three windows 27x48 inches on the south, and a door in each end, but no means of ventilation. What kind of roosts and dropping boards are best where the coop cannot be cleaned every day? Is lath and plaster advisable in a chicken coop? Could a portion be perfittioned off with wire and a coal It seems to be well constructed and is in a chicken coop? Could a portion be partitioned off with wire and a coal heating brooder be installed without carry the disease from danger of fire? I have so much trouble healthy flocks.—R. G. K. teaching my pullets to roost in the house after they have been raised in a colony house. G. S.

tory if it had some open front which could be protected by curtains in very cold weather. In many good poultry houses the water pails will freeze at night when the temperature is near St. Clair Co.

I had twelve little turkeys, which we kept in a barn for three days after they were hatched. They got in a patch of rye, were not sick, and had no diarrham the temperature is near St. Clair Co.

W. H. The house would be more satisfac zero. But this does not indicate that the birds.

than when a pit is used beneath the upper edges rounded with a plane. These roosts can be nailed on crosswall of the house. Then they can be raised and hooked to the ceiling when the dropping boards are cleaned. We are necessary or advisable in a poultry

A portion of a laying-house could be partitioned off with wire and used for course, there would be some danger would be eaten by turkeys .- R. G. K. from fire. The stove would have to be operated very carefully and the roof protected where pipe passes through. Much care would be needed when cleaning the stove to avoid dropping erate the stove brooder in a colony ment, the parents go with them. house away from the winter layinghouse each night they are very slow in ing fields. adopting it for a permanent home. The second, or labor problem, will much quicker. R. G. K.

HENS WITH TUBERCULOSIS.

My hens are sick only a short time,

if some of it has not soured and be- and social advantages for all. come spoiled feed. Some poultrymen In view of present-day tendencies in of the birds are not killed.

wheat carefully and immediately cull the farm will become more attractive.

REMODELING POULTRY HOUSE. out and kill all of the hens that become lame or show signs of loss of I would like your help in planning to appetite, and emaciation. If the con-remodel our chicken house which is dition increases rapidly it will be nec-cold in winter and poorly ventilated. essary to kill off the entire flock and essary to kill off the entire flock and

> believe that these pests can easily carry the disease from infected to

YOUNG TURKEYS DIE.

The most common disease of young the house is too cold for the health of turkeys is blackhead, but as you give no symptoms we cannot determine if Even if a house cannot be cleaned this is the case. Possibly the turkeys every day it pays to use a dropping obtained some poisonous feed which platform at the back of the house, cassed digestive disorders or a weak-This keeps the floor clean and gives ness of the breeding stock produced the hens a larger area for scratching poults which did not have the vitality to live. If the poults had died of blackroosts. Two-by-three pieces make good head they would have been dull and poultry roosts. They should have the droopy and had diarrhea. Often the head would turn purplish. The poults may be sick only four or five days and pieces which are hinged to the back so they might die before the owner realized they were sick, if the birds were on a large range and not visited every day. Arsenical or salt poisoning do not believe that lath and plaster might cause the death of young turkeys. Investigations by scientists have proven that "twenty-five grains of salt per pound of live weight" is enough to cause death in fowls. When salta coal-burning brooder stove. Of ing stock it might be placed where it

WILL FARMING AS A BUSINESS COME BACK?

(Continued from first page). hot ashes in the straw litter. It is breaking home ties and sending the much more safe and satisfactory to op- children out into a strange environ-

The first of these reasons would vanhouse. This not only reduces fire risk ish very shortly should the wheels of but gives the chicks a range that is industry stop or factories close down less contaminated and they are not for a season. This unbalanced indusbothered by the older birds. Young trial prosperity cannot continue indefipullets can easily be taught to roost nitely. The nation must be fed and in their laying-house if they are fasten- the primary source of our food supply ed in the house for about a week until is the farm. The thinking young man they learn to take to the roosts each should look into the future. For the night without being placed there. If new day, farming and scientific agripullets have to be carried to a new culture offers one of the most promis-

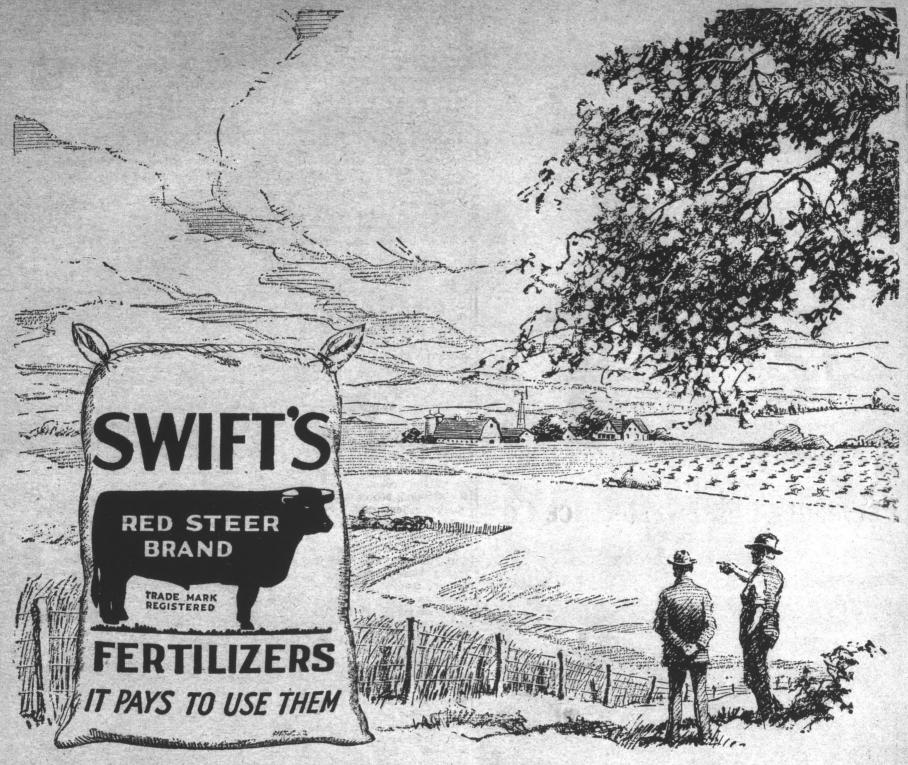
But if they go to roost for themselves gradually adjust itself as the expense they learn the use of the new home of living in the city is bound to have its effect. Cheaper rents and cheaper food products with the more wholesome life in the open country will tend to offset wages.

The third reason for the farmer mov-My hens are sick only a short time, seem lame for a few days, will not eat, then die. On opening some I found the liver enlarged and covered with white speeks. The heart also had hard white lumps on it. The hens were fat. I feed them barley, oats and some parched wheat. What ailed these hens and how can I prevent further losses in the flock?

W. C.

The third reason for the farmer moving to town is being rapidly removed through the establishment of consolidated schools. This will make it possible for the boy and girl on the farme to receive high school training without leaving the farm. This training will be equal to that given in the city and the children can be at home. Courses The small white nodules on the liver the children can be at home. Courses indicate tuberculosis and there is no in agriculture, home economics, and cure for a hen with that disease. There farm carpentry will be included in the might be complications in the nature course of study and the work in high of digestive disorders due to the feed-school will bear a direct relationship ing of the wheat which has been to the community life and its activithrough fire. Such grain is commonly ties. It will become the community called salvage wheat and it is all right center and provide suitable recreation

have suffered severe losses from sal- rural life, the Great Farm Bureau vage wheat which has been through movement, the cooperative marketing fire and damaged by water. Spoiled of farm products, the construction of wheat will throw the best of hens off good roads, the coming of the consolifeed in a short time and will stop egg dated school, the farm tractor, motor production for a period, even if some truck and other improved machinery, the federated rural church, and social In this case we should examine the advantages that are the best, life on



Making fertilizer right is a big job

Brands specially recommended

We recommend the brands given below as the most profitable to use under general farming conditions.

	Ammonia	Analysis Phosphoric Acid	Potash
Swift's Champion Wheat	2	12	2
Swift's Clay Soil Special	2	. 12	0
Swift's 12-2 Fertilizer	0	12	2
Swift's High Grade Acid Phosphate Fertilizer	0	16	- 0

AMMONIA gives the plant a quick start, particularly a essary when seeding is delayed to combat fly, increases vegetative growth, and aid stooling.

PHOSPHORIC

increases root growth, aids in stooling, plump the berry and hastens maturity.

POTASH stiffens the straw and aids in starch formation.

POTAGE States the staw and aids in starch formation.

Select from the above list the brand best suited to your requirements. Other brands on request.

REMEMBER - The higher the analysis, the cheaper the plant food per pound.

Swift & Company

To make fertilizer of quality—fertilizer that produces the biggest yields at the lowest cost—requires a great deal more than raw material and manufacturing equipment.

Fertilizer made right is a highly scientific product. It presents many difficult problems in chemistry and agriculture—problems that demand the knowledge and experience of scientifically trained men.

Swift's Red Steer Fertilizers are made "right" and are the best crop producers because Swift & Company has the trained men, the most modern machinery, and uses the right materials.

You can always depend upon a Swift product. For more than 50 years Swift & Company has maintained the reputation of making each Swift product the best of its kind.

Buy Swift's Red Steer Fertilizer containing 14% or more of available plant food and thus get high grade plant food at the lowest cost per pound. Order from our local dealer, or write our nearest sales division.

Swift & Company, Dept. 45

Fertilizer Department
Union Stock Yards, Chicago, Ill.



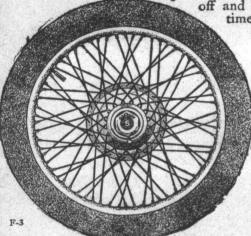
Mr. Brown--"What kind of an auto is that?" Mrs. Brown—"That's a Ford—didn't you know? Those Simplex Wire Wheels are what makes it look different." Mr. Brown—"By golly that's what I'm looking for. I want one of those cars, wheels and all."

ANY are saying the same thing as neighbor Brown. These wheels do make any Ford look real smart but aside from this, owning a set of



is a great economy. You can "wear your tires down" to the last fraction of a mile. In a jiffy, you can remove a wheel,

place your spare wheel on—and be off and make up the 5 minutes time it took you to make the change.



Write for FREE booklet and prices per set of five, and send us your dealer's name.

SIMPLEX WIRE WHEEL CO. CADILLAC, MICH.

Formerly the Kol-Ben Wheel Co.

Feed Every 3rd Hog FR

Save feed and get your hogs ready for market in less time. Prove at our risk that you can save fully one third your feed, making it possible to feed every third hog free by feeding

Milkoline At 2c a Gallon

Milkoline has a base of pasteurized and sterilized, modified Buttermilk. It is guaranteed not to contain any subhuric acid or anything of an injurious nature to hogs or poultry.

Aids Digestion: Thousands of the most successful hog raisers from New York to California during the pastseven years have proved that Milkoline helps and assists digestion, tending to insure perfect assimilation of feed. It helps tone up the system so that hogs are less subject to disease, and practically insures gains of 2½ pounds per head per day.

University Tested Professor W. while Ass't. Prof. of Dairy Husbandry at Missouri University conducted a scientific test on Milkoline and found that Milkoline fad hogs put on more weight and showed 82.57% more profit than hogs not fed Milkoline. W. H. Graham a successful feeder of Middletown, Mo., said \$30 worth of Milkoline made him an extra profit of \$420. Lee Jackson of Wappingers Falls, N. Y., says Milkoline fixed up a bunch of shoats in fine style and is great for brood sows.

Can't Spoil: Milkoline is guaranteed not to rot, sour or mould. It will keep indefinitely in any climate. Flies do not come near it. It is always uniform, and is guaranteed to make you money or it doesn't cost you anything.

-Distributed by-

SCHWARTZ BROS.,

2c a Gallon Milkoline densed form, and you do the diluting on your own farm. When fed as directed Milkoline mixture (one part Milkoline to 50 parts water or swill) costs only 2c a gallon. Full feeding directions free, It is shipped in convenient kegs and barrels which we supply free. The prices are as follows: 5 gal. \$7.50; 10 gal. \$12.50; 15 gal. \$12.50; 20; 55 gal. \$19.50. It pays to buy in barrel lots because you save 60c a gal. over the 5 gal. quantities.

30 - Day Guaranteed Trial. You are safe in ordering any quantity of Milkoline today. Feed one half the shipment to your hogs and poultry in a thirty day test, then if you aren't entirely satisfied return the unused part to us at our expense and we'll immediately refund every cent you paid us. We are so confident that you will find Milkoline the best money maker on the farm that the S. W. Boulevard Bank of Kansas City substantiates this offer. You are the sole judge. Send money order, or check, to us or our Send money order, or check, to us or our nearest dealer and we will ship immediately. Our booklet, "How to Hustle Heavy Hogs to Market" will be sent free on request—your name on a card will do.

Saginaw, Mich.

BARN PAINT \$1.32 GALLON

GET FACTORY PRICES ON ALL PAINTS. We guarantee quality. WE PAY THE FREIGHT. FRANKLIN COLOR WORKS. FRANKLIN, IND.

Ito San Soy Beans. Michigan grown \$10 per bush a grown Alfalfa. Seed Potatoes, Write today for special seed price list. A. H. FOSTER CO., Allegan, Mich.



Our Service Department

STUCCO FOR RESIDENCE.

We wish to remodel our house, and would like to know which is the more durable to put on the outside, Kellasdurable to put on the outside, Kellastone put on with wood lath, or stuceo put on with wire netting? Also, is there a difference in the mixing of the cement for the stucco so that some will crack while others will not, and is there a rule to go by in mixing it so it will last?

Calbour Co.

Subscriber

Calhoun Co. SUBSCRIBER.

The method of mixing and placing lasting qualities and why some crack and others do not. In the first place, common cement stucco should never be put on common wood lath, but it should always be placed on metal lath per yard. If wire cloth is used it should not be less than nineteen gauge and two and one-half meshes to the inch. In very damp climates or on the coast, the lath or cloth must be galvanized; elsewhere, it should be painted at the factory.

I planted twelve acres of sugar beets. I used one ton of fertilizer. The sugar beets seed was not any good. I had to work this field over and put it into beans. I did not get any benefit out of the fertilizer. The company wants me to pay for their fertilizer. Should I pay them or not?

Montcaim Co. H. S. weighing not less than four pounds

The stucco is made of one measure of Portland cement, three measures of sand and one-tenth measure of hydrated lime or plasterer's lime-putty well mixed together and about as moist as ordinary mortar. After wetting this, use it immediately; if any has stood longer than half an hour throw this away and mix up a fresh batch. Don't attempt to "temper" or soften it; the strength has gone and it is no good. A little hair is a good thing in the first coat, but not really necessary. Too much hair is worse than none.

No doubt Kellastone would be the most satisfactory and the cheapest in the end. The Kellastone is composed of a chemical which makes a stucco that is water or moisture proof. It can be placed on wood lath without danger of cracking and makes a job that is far superior to common stucco. H. M. W.

SEEDING VETCH.

I have purchased some winter sand or hairy vetch seed which I intended to sow with oats this spring for hay. Do you think it advisable for me to sow it now, or would you wait and sow it in the fall with rye? The land on which I intended sowing the vetch is light sandy land.

and sown alone or with rye in August, dren. Now if the wife dies, can her is practically a sure crop. This combination may be left to mature seed, or it can be cut green for hay. For this purpose it should be cut when the contact of the property they make together? If so, what purpose it should be cut when the purpose it should be cut when the rye is in the milk stage and quite green. The vetch will then be nicely in blossom. On some fairly good sandy soils, with the proper weather conditions, hairy vetch and oats sown in spring will give a good yield of hay. Satisfactory results, however, would not be so certain with spring-sown hairy vetch as when sown with a winter grain in August. Unless hay is needed very badly, I should not risk the spring sowing on your light sandy land. Not but that the vetch will make a start and live, but dry weather may prevent enough growth of both vetch and oats to make a profitable yield of hay. Such was true in many cases last summer in this part of the state.—H. L. B.

A buys forty acres on contract. A sells twenty acres to B on contract, in which A agrees to give warranty deed. B pays for land according to contract and demands deed. A does not have land paid for, so cannot give deed, but promises to do so. A dies; his wife has signed contract. Has B any title or claim to land? B has also kept up the taxes.—R. M. S.

The buyer from the original contract. The buyer from the original contract. The properties of the sandy land. Not sells twenty acres on contract. A sells twenty acres to B on contrac

SUDAN GRASS,

ommend?

The proper way to seed Sudan grass deceased.—J. R. R.

is alone. Get the ground in good shape and seed without a nurse crop. This grass is such a luxuriant grower, in fact, it is not a grass at all, it belongs to the sorghum family, that I do not believe it would do well with oats. If there was plenty of moisture, you could fit the land that you had harvested for oats and seed to clover alone by using two hundred pounds of fertilizer to give it a good start. The seed should not be sown until there is stucco has a great deal to do with its moisture enough in the soil so that they will readily germinate. C. C. L.

> POOR RESULTS FROM FERTILI-ZER.

I planted twelve acres of sugar

I should say that you will certainly have to pay for this fertilizer. Because

you cultivated up the beets and planted beans is no sign that you did not get results from the fertilizer. As a matter of fact, if you had a poor crop of beans and they did not consume the fertilizer, the fertilizer is still in the ground and you will get benefit from it this coming year. It is barely possible that if you put this fertilizer all in the row with the beet seed when you planted the seed, that it injured the germination, which would be the cause of your poor stand. I don't think that over one hundred pounds per acre should be used in the row with the seed, then the balance of it should be scattered broadcast.

I cannot understand why the bean crop which followed was not benefited by the fertilizer as after the ground had been prepared for the beans the fertilizer would be well mixed with the soil and in splendid shape for the bean crop. I am sure if you have not already received any benefit from this fertilizer, that you will in future crops. C. C. L.

DESCENT OF PROPERTY.

A couple start together, neither of them possessing much property. After a term of years they accumulate quite

and no children, all property owned by her and in her name, and not disposed of by will, is divided after paying her debts, funeral expenses, and costs of administration, one-half to the husband and the other half to her parents or brothers and sisters. This is by the statutes of Michigan.-J. R. R.

LAND CONTRACT.

The buyer from the original contract purchaser has succeeded to the I have lost my seeding now for two equitable title of the first as to the years. Is Sudan grass good to sow part so purchased by the second party. with oats, or will it kill the oats? If The executor or administrator are giving it is not good, what would you recent authority by law to make convey-E. W. H. ance according to the contract of the

DAMPING OFF OF CABBAGE.

I have several thousand cabbage seedlings which have been growing poorly and I notice they are black at the surface of the ground and some of them are as thin as a string near the roots, although the tops are large. What is this and should I use these plants?

Lapeer Co.

The trouble is damping off, and the plants with the constriction just above the roots are those that have survived in spite of the damping off. The top has grown at the expense of the root system.

This trouble arises from using too rich and heavy a soil for growing the seedlings and from overwatering the little plants. Some plants outgrow the damping off if the weather is favorable but others get such a setback and the girdle so operates to stunt the roots that the plants do poorly.

The seeding cost in setting cabbage is a small item compared with the value of cabbage ground and the cost of labor in setting and care. Only the best and healthiest seedlings should be set. Secure good plants if possible

and take no chances.

Next year treat the seed in corrosive sublimate, one part to five hundred, for one-half hour, rinse well, plant in clean sandy soil, not too rich, using flats that have abundant openings for drainage. The best flats I have seen are those which have a net of coarse mesh for a bottom. Ordinary hardware cloth is good. This gives fine chance for drainage. Then keep the plants on the "dry side," stirring the soil frequently to give a good loose mulch at the surface. When watering sub-irrigate or flood the water on, do not sprinkle. Protect outdoor plants from rain if possible. Such precautions will give plants free from the damping off which has cost you money and will ward off blackleg and kindred evils as well.-G. H. C.

VALUE OF SILAGE.

What is good corn silage worth per ton that would husk about eighty bushels to the acre, when hay is worth \$27 per ton?

Gladwin Co. There being no market for corn silage, the only way we can determine its value is by comparing it to some other foodstuff of similar analysis, for which there is a market value. Corn silage is very similar in the proportion of food nutrients to timothy hay, besides experiments show that a ton of timothy hay is practically equal to three tons of corn silage, therefore corn silage would be worth one-third as much as timothy hay. If your timothy hay was worth \$27 per ton, then corn silage would be worth \$9.00. C. C. L.

RYE FIELD FOR ALFALFA.

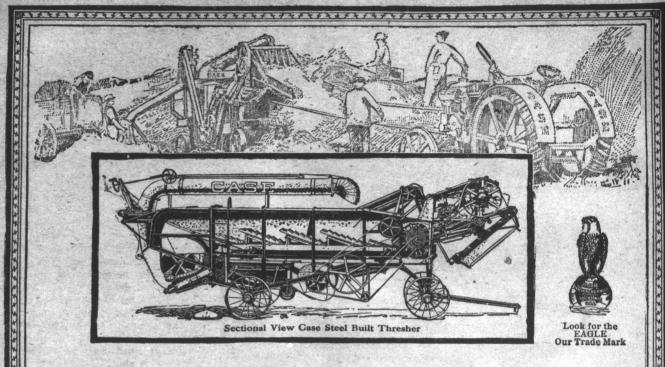
I have two acres of sandy soil that was sown to alfalfa last year and only was sown to analize tast year and only a small part of it caught. I dragged and sowed it to rye. What should I do to get it seeded? Could I sow it to alfalfa with the rye and cut the rye for hay?

It is quite late to sow alfalfa seed in rye now and expect a stand. Better plow the rye under for green manure, top-dress with two tons of lime per acre, and at some favorable time before the first of August sow inoculated alfalfa seed with two hundred pounds per acre of the best commercial fertilizer you can buy.-H. L. B.

IMPASSABLE HIGHWAYS.

Is there any law to compel a man to move his fence, I mean road fence, because the snow drifts in the road and has to be shoveled out? The fence in question is a slat and wire fence.—W. F.

Not without condemnation. But at the same time, when a road becomes impassable the public is not liable to the adjoining owner for going on the adjoining land to get around the obstruction,-J. R. R.



Case Threshers Save Your Crop

GOOD threshing is the climax of good farming. It's what you have been working for ever since you began preparing ground for seeding. It's just as important as fertile soil, summer showers and harvest sunshine,—and it's up to you. If you do not own a Case Thresher, the next best thing is to employ one.

The Case Steel Built Thresher, in any of the six sizes we manufacture, is the machine of clean threshing, thorough separation, perfect cleaning and unequalled saving.

You owe it to yourself to save all you harvest. You can do it with a Case Machine. It successfully handles Rice, Flax, Peanuts, Peas and Beans, Rye, Oats, Barley Wheat, Clover and Alfalfa, Millet, Buckwheat, Timothy, Orchard Grass, Kaffir Corn, Sorghum, Broom Grass Speltz, Hungarian Grass, Red Top, Blue Grass, Milo Maize, Sudan Grass and Feterita.

After passing the cylinder, where all the grain is threshed and most of it separated, the straw is shaken,—shaken shaken;—230 shakes a minute. Note the improved strawrack, the great separating surface and ample space for straw.

Write for catalog of Case Steel Built Threshers showing sizes suitable for the individual farm or for custom threshing on the largest scale.

J. I. CASE THRESHING MACHINE CO., Inc.

Dept. AG-6, Racine, Wis., U. S. A. Making Superior Farm Machinery Since 1842

To avoid confusion, the J. I. CASE THRESHING MACHINE COMPANY desires to have it known that it is not now and never has been interested in, or in any way connected or affiliated with the J. I. Case Plow Works, or the Waltis



NOTE:





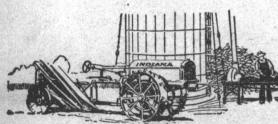
With Sulky Plow



With Grain Drill



With Corn Binder



Cutting Ensilage

NDIANA
ALL-ROUND
TRACTOR
The World's Tractor

WHEN you sell two teams and put the money into an Indiana Tractor you cut down the time you have to spend doing chores and raising feed for horses. You quit working a month or two a year for your horses and work all the time for yourself.

Horses in excess of one team for hauling and odd jobs can be used on most farms only 90 to 100 days during the crop season. But the high cost and trouble of keeping them runs on through the winter.

The Indiana Tractor will do the work of four horses and do everything that they do. Plowing is only 15 per cent of what a tractor must do to replace horses. The Indiana plows more than two teams, and is light enough to go on the ground any time horses should.

It attaches to all makes of harrows, discs, planters, one and two row cultivators, mowers, binders, corn binders, rollers, drills, cultipackers, potato diggers, and all orchard and vineyard tools.

The regular implements you already have are the only practical size and type for row cultivation. The Indiana Tractor will use them with inexpensive hitches. In many operations it will replace six or eight horses. The driver rides the implement and has his work in front of him. The Indiana is the all-round, single unit, one-man tractor.

H. P. Purviance of Logan County, Ills., say: "My Indiana Tractor certainly is a success with the grain binder or anything else one can do

with four horses. Used it on double tandem 7 ft. disc, also on double corrugated roller and Nisco manure spreader. I like it better to cut grain than horses, for heat and flies do not bother it and the power is more steady. It stays on top in low spots better than horses."

An Indiana will work every day and the money you can get for four horses and the cost of keeping them a year will more than pay for it. Some owners do not have a horse on their places.

Clayton McFarland, Tippecanoe County, Ind., says: "My corn is equal to any corn in the community and I cultivated it entirely with my tractor. I can plow 20 acres of corn a day with a two row cultivator. I can turn at the ends and break less corn than with a team. I harvested both wheat and oats myself with no trouble from the tractor."

Many owners report cutting grain of all kinds at a fuel and oil cost of 10 to 12 cents an acre.

You can get an Indiana promptly from any of our branches, get rid of four horses, and do two men's work yourself. In the last four years this tractor has made hundreds of enthusiastic farmer friends, who help us sell more Indianas.

For 20 years the Indiana Silo and Tractor Company has been known for high quality products and fair dealing. Ask any of the 75,000 owners of the Indiana Silo.

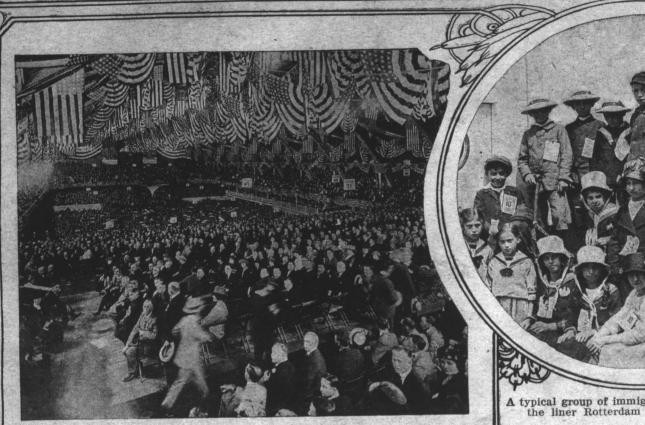
47 Union Building......Anderson, Indiana

Mail coupon for book of pictures showing the Indiana doing all the work horses do, and book of letters from users. If you need a silo, we have one for you. We are the largest silo manufacturers in the world.

DEALERS: This tractor can be used more on more farms than any other. It's the biggest dealer proposition in the field.

THE INDIANA SILO & TRACTOR COMPANY

WORLD EVENTS IN PICTURES



A typical group of immigrant children who arrived on the liner Rotterdam at New York last week.

General view of the great crowd at the opening of the republican national convention in the Coliseum at Chicago.



Schleswig-Holstein remain German or go back to Denmark when her people vote at plebiscite.

Isaac Montgomery, Jefferson Davis' servant, and former U. S. Senator Gale, of Mississippi, delegates to the republican convention, are examining a medal of the Old Guard, who voted for General Grant at Chicago in 1880.



Latest photo of Huerta, who has just taken the oath as president of the united states of Mexico to direct affairs until an election is held.



Clearing the bar in the women's horse jumping class at the nation's most famous annual horse show, held at Chestnut Hill, Mass.



A recently invented life-line hurling gun which will shoot a line accurately for fourteen hundred feet, and is highly commended by the United States Steamboat Inspection Board.

THE VALLEY OF THE GIANTS

A ROMANCE OF THE REDWOODS

By Peter B. Kyne



lows hereabouts, Mr. Bryce. And I've lived in these woods all my life."

covered."

"And I don't intend to marry a lumdefiance, however, there was a note of from him for old sake's sake; he told She nodded miserably. sad resignation in her voice.

son and gold."

"How do you know, Mr. Bryce?"

book."

think. It seems-it's so foolish of me, I should get back." my world, Mr. Bryce. Hills and timber, he has become." ber again." She sighed.

"Are you lonely, Moira?"

She nodded.

sently.

derstood touched her; a glint of tears rowing a couple of hundred dollars. was in her sad eyes. He saw them and then Dad had to hire him again to declared with emphasis. "The idea of and placed his arm fraternally around get it back! Of course, the matter our woods-boss's daughter slinging Hills and timber-timber and hillsher shoulders. "Tut-tut, Moira! Don't simmers down to this: Dad is so fond hash to lumberjacks. Poor Moira!" and I'm going to set you free. Perhaps perfectly, and of course we'll have to the moral courage to work him over ing the callous spots on the plump Charming. There, there, girl, don't do something about it. You're too fine -and now that job is up to me. Moira, palm, the thick finger-joints that hint- cry. We Cardigans had twenty-five to the low stoop in front of the shanty. a hopeless inebriate." "Sit down on the steps, Moira, and "I'm afraid he is, Mr. Bryce." we'll talk it over. I really called to see "How long has he been drinking to up to the logging-camps to hunt and your father, but I guess I don't want excess?" to see him after all-if he's sick."

Father isn't sick. He's drunk."

landing. I'm terribly sorry."

and they'll never come true. I-I-oh, years ago." Mr. Bryce, Mr. Bryce, I'm so unhappy."

me the other night that he has disthing will just naturally turn to crim- on the pay-roll, and as fast as Dad I'm going to stay up here a couple of a dog to be taught new tricks." put in a new woods-boss old Mac drove weeks and break him in myself. By him off the job. He simply declines the way, is Mac ugly in his cups?" He laughed. "I read about it in a to be fired, and Dad's worn out and too tired to bother about his old woods- fervently. "I prefer spring in the woods, I boss any more. He's been waiting until never said an unkind word to me."

it's hard to be contented when it is body wants to be Cardigan's woods tells me Mac needs every cent of his I don't want to see him again until always winter in one's heart. That boss and have to fight my father to two hundred and fifty dollars a month he's cold sober. I'll write him a letter. frieze of timber on the skyline limits hold his job. I realize what a nuisance to enjoy himself."

was that old Mac would always come take care of him. Don't you see, Mr. along on that?" The thought that he so readily un- and promise reform and end up by bor- Bryce?"

She looked at him bravely. "I didn't he would always take a few drinks the huckleberries were ripe, we used full for mere words. know you at first, Mr. Bryce. I fibbed with the men around pay-day, but after to go out and pick them together. "Fiddle-de-dee, Moira! Buck up," he "I thought so when I saw the load- drinks between pay-days. Then he I'll be shot if I'm going to see you rassed withal. "The way you take this, ing-crew taking it easy at the log- took to going down to Sequoia on Sat- suffer." urday nights and coming back on the "I loathe it—and I cannot leave it," mad-train, the maddest of the lot. I ing eyes. "You haven't changed a bit, pleasantly surprised when I didn't. she burst out vehemently. "I'm chain- suppose he was lonely, too. He didn't Mr. Bryce. Not one little bit!" ed to my degradation. I dream dreams, get real bad, however, till about two

"Just about the time my father's our dose of it, you know, and just at ing up into the woods to jack Mac up. trains into town and back again."

"Thank God, no," she answered with him." "Drunk or sober, he has

I know; I ought to be contented, but "I know," said Moira wearily. "No- money to clothe yourself? Sinclair these woods will never see again—and

"Sinclair is a fuzzy old fool," Bryce ly, but she did not speak.

was a boy, Moira, how I used to come I think."

going to fire your father, as I've said, because he's working for old J. B. now, not the Cardigan Redwood Lumber Company. I really ought to pension him after his long years in the Cardigan service, but I'll be hanged if berjack and continue to live in these it seems. You're cursed with too much coast, and now he's reached the bot- we can afford pensions any more woods," she went on earnestly, as if imagination, Moira. I'm sorry about tom! I couldn't get him on the tele- particularly to keep a man in booze; she found pleasure in this opportunity your father. He's been with us a long phone today or yesterday. I suppose so the best our old woods-boss gets to announce her rebellion. Despite her time, and my father has borne a lot he was down in Arcata, liquoring up." from me is this shanty, or another like it when we move to new cuttings, "Well, we have to get logs to the and a perpetual meal-ticket for our "You don't know a thing about it, charged Mac fourteen times during the mill, and we can't get them with old camp dining-room while the Cardigans Moira. Some bright day your Prince past ten years, but to date he hasn't John Barleycorn for a woods-boss, remain in business. I'd finance him Charming will come by, riding the log- been able to make it stick. For all his Moira. So we're going to change for a trip to some state institution train, and after that it will always be sixty years, Moira, your confounded woods-bosses, and the new woods-boss where they sometimes reclaim such autumn in the woods for you. Every- parent can still manhandle any man_will not be driven off the job, because wreckage, if I didn't think he's too old

> "Perhaps," she suggested sadly, "you had better talk the matter over

"No, I'd rather not. I'm fond of your father, Moira. He was a man "But how do you manage to get when I saw him last-such a man as As for you, Moira, you're fired, too. "I used to steal from him," the girl I'll not have you waiting on table in timber and hills, and the thunder of Bryce chuckled. "I asked Father admitted. "Then I grew ashamed of my logging-camp-not by a jugful! falling redwoods. And when the trees why he didn't stand pat and let Mac that, and for the past six months I've You're to come down to Sequoia and have been logged off so we can see the work for nothing; having discharged been earning my own living. Mr. Sin- go to work in our office. We can use world, we move back into green tim- him, my father was under no obliga- clair was very kind. He gave me a you on the books, helping Sinclair, and tion to give him his salary just be- job waiting on table in the camp din- relieve him of the task of billing, cause he insisted on being woods-boss. ing-room. You see, I had to have checking tallies, and looking after the Dad might have starved your father something here. I couldn't leave my pay-roll. I'll pay you a hundred dol-"Poor Moira!" he murmured ab- out of these woods, but the trouble father. He had to have somebody to lars a month, Moira. Can you get

Her hard hand closed over his tight-

"All right, Moira. It's a go, then. cry," he soothed her. "I understand of your father that he just hasn't got He took one of her hands in his, not- in Sequoia you'll find your Prince for this." With a sweep of his hand he I'm not going to beat about the bush ed of so much toil, the nails that had years of faithful service from Donald indicated the camp. He had led her with you. They tell me your father is never been manicured save by Moira McTavish before he commenced slipherself. "Do you remember when I ping; after all, we owe him something,

She drew his hand suddenly to her fish? I always lived with the McTav- lips and kissed it; her hot tears of "About ten years, I think. Of course, ishes then. And in September, when joy fell on it, but her heart was too

mother died, he began taking his Poor Moira! Why, we're old pals, and protested, hugely pleased, but embarone would think you had expected me She glanced at him shyly, with beam- to go back on an old pal and had been Cheer up Moira! Cherries are ripe, or "Let's talk about you, Moira. You at any rate they soon will be; and if went to school in Sequoia, didn't you?" you'll just cease shedding the scalding "Yes, I was graduated from the high and listen to me, I'll tell you what I'll "So am I," he retorted. "We all get eyes began to fail and he ceased com- school there. I used to ride the log- do. I'll advance you two months' salary for-well, you'll need a lot of present I'm having an extra helping. So he let the brakes go and started to "Good news! Listen, Moira. I'm clothes and things in Sequoia that you

AL ACRES-Al's City Cousin Finds Unusual Movie Material Where He Least Expected It.

-By Frank R. Leet



don't need here. And I'm glad I've managed to settle the McTavish hash without kicking up a row and hurting your feelings. Poor old Mac! I'm sorry I can't bear with him, but we simply have to have the logs, you know."

He rose, stooped, and pinched her ear; for had he not known her since childhood, and had they not gathered huckleberries together in the long ago? She was sister to him-just another one of his problems-and nothing more. "Report on the job as soon as possible, Moira," he called to her from the gate. Then the gate banged behind him, and with a smile and a debonair wave of his hand, he was striding down the little camp street where the dogs and the children played in

After a while Moira walked to the gate and leaning upon it, looked down the street toward the log-landing where Bryce was ragging the laggard crew into something like their old-time speed. Presently the locomotive backed in and coupled to the log train, and when she saw Bryce leap aboard and seat himself on a top log in such a position that he could not fail to see her at the gate, she waved to him. He threw her a careless kiss, and the train pulled out.

Presently when Moira lifted her Madonna glance to the frieze of timber on the skyline, there was a new glory in her eyes; and lo, it was autumn in the woods, for over that hill Prince Charming had come to her, and life was all crimson and gold.

When the train loaded with Cardigan logs crawled in on the main track and stopped at the log-landing in Pennington's camp, the locomotive uncoupled and backed in on the siding for the purpose of kicking the caboose, in which Shirley and Colonel Pennington had ridden to the woods, out onto the main line again-where, owing to a slight downhill grade, the caboose, controlled by the brakeman, could coast gently forward and be hooked on to the end of the log-train for the return journey to Sequoia.

Throughout the afternoon Shirley, following the battle royal between Bryce and the Pennington retainers, had sat dismally in the caboose. She was prey to many conflicting emotions; but having had what her sex term "a good cry," she had to a great extent recovered her customary poise-and was busily speculating on the rapidity with which she could leave Sequoia and forget she had ever met Bryce Cardigan-when the log-train rumbled into the landing and the last of the long string of trucks came to a stop directly opposite the caboose.

Shirley happened to be looking through the grimy caboose window at that moment. On the top log of the load the object of her unhappy speculations was seated, apparently quite oblivious of the fact that he was back once more in the haunt of his enemies, although knowledge that the doublebitted axe he had so unceremoniously borrowed of Colonel Pennington was driven deep into the log beside him, with the haft convenient to his hand, probably had much to do with Bryce's air of detached indifference. He was sitting with his elbows on his knees, his chin in his cupped hands, and a pipe thrust aggressively out the corner of his mouth, the while he stared moodily at his feet.

Shirley suspected she knew what he was thinking of; he was less than six feet from her, and a morbid fascination moved her to remain at the window and watch the play of emotions over his strong, stern face. She told herself that should he move, should he show the slightest disposition to raise his head and bring his eyes on a level with hers, she would dodge away from the window in time to escape his scrutiny.

(Continued next week).

That great riding comfort found also in the New Mitchell

ITH all the betterments in the New Mitchell, we have not changed the suspension. We retain those famous cantilever springs that have already won approval everywhere.

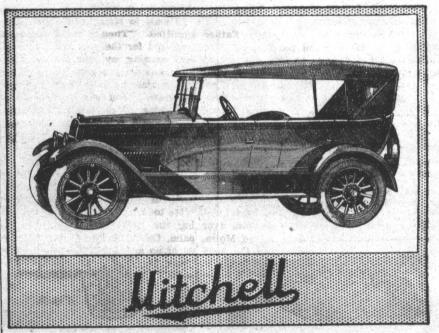
Bodies are roomier, upholstering is finer and deeperbut it is impossible to design or make springs that are better. On thousands of Mitchells these especially designed cantilever springs have proved their worth. They bring the utmost in comfortable riding. And they never

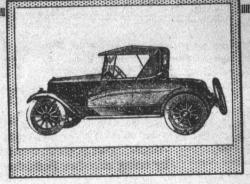
The New Mitchell looks new and is new throughout, with such few exceptions as above.

Note the new body lines, bringing the latest and accepted style. Note the fine top, the real leather upholstery, all the equipment.

Then, like everyone else who inspects this creation, you will recognize its over-values. We are able to offer you a better car at a fair price because we built it complete. We do not assemble.

The New Mitchell is the sensation of the year. It is selling faster than we can build. That means that you should investigate it before you buy.





Built to stay new

THIS has been our idea in car building for four years. We have developed it to the limit. We have been able to prolong newness. By building with better materials, by adding extra finish.

We are able to build in those lasting qualities because we supervise every process, from buying raw materials to the completed job. We are not dependent upon outside parts makers.

So we not only save money for you, but we guard your interests in build-ing for you a real economy car.

Upkeep and operating costs have been brought to a new minimum. We know, because our parts department has reached a low ebb in replace-

The body as well as the mechanical unit is built to stay new. We build the bodies ourselves. We add extra strength, extra braces. We go to extremes that are rarely practiced in cars of this price. A finer body is impossible, for we follow, and have created, some of the accepted standards of custom building. ards of custom building.

For a long-life, comfortable, economical and stylish car—at a saving in initial cost, as well as later, this New Mitchell commands your atten-We do not believe that you can find its equal at the price.

Go to a Mitchell dealer, make com-parisons. See what this New Mitchell offers. Then, if you agree that it is the finest car at the price, place your order early, so as to insure early de-

MITCHELL MOTORS COMPANY, INC., RACINE, WISCONSIN

This time of year

it's a good idea to combine fresh fruit or berries with your morning dish of



The blend of flavor proves delightful and is in tune with June.

"There's a Reason"

For Sale & acres strictly high grade soil.

Cattle team of horses, kogs, chickens and all necessary tools and equipment. Will sell at a sacrifice owing to the owners poor health. Write JOHN ON MICH.

JOHN ON MICH. JOHN B. PRIE.

LAND OOMANT, Jamestown, North Dakot.

Farms and Farm Lands For Sale

232-Acre Farm With

Horses, 25 Cows, Tools, Crops Big steady income; fine location, near town; closeramery; broad machine-worked fletis, di-cowspring watered pasture; 2-story, 10-room house, spring water maple shade; big stock barn, silo, water supply, poults house; owner unable occupy, throws in larges, cow 3 yearlings, two 2-year olds, machinery, fools, par growing crops; lees than \$30 an acre for everything, par cash easy terms. Details of this and another at £30 page 28 ktrout's Big Illustrated Catalog Farm Bagains Mich., Ohio, Wisconsin, Indiana and 29 others, Copy free. STROUT FARM AGENCY, \$3 BG, Ford Bldg., Detroit.

80 ACRES

good line room frame house with basement, one good stone basement barn 35:50 another stone basement barn 25:36, good out buildings, good well and windmill, well piped to barn, ½ mile to school, 1½ mile to good form, on state award gravel oud. Price \$5000, one half down and any resonance with the place. This yes that the place with the place. Must be sold in Thirty days. Write

M. F. UMPHREY, Evart, Mich.

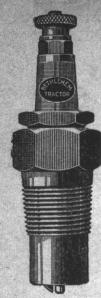
NEW YORK STATE FARMS

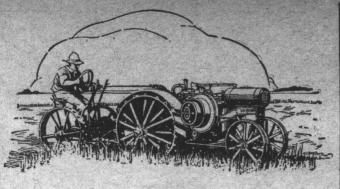
36 acres of level alfalfa land, with fine building, short distance from town, good schools and churches, owner wishes to retire. Will include Li cows. team of horses, 50 hens, and all farming tools. Price \$9,000. Part cash. Get our our catalogue with 150 descriptions of equipped farms.

HUGH R. JONES COMPANY, Inc.

Jones Building, Utics, N. Y.

Please mention the Michigan Farmer when writing to advertisers.





Spark Plugs and Having

OU can't make hay while the sun shines if your tractor is limping along with one spark plug gone "dead." But you can overcome such annoying delays by using sure-fire Bethlehem Spark Plugs.

Their construction is different. The mica in the de Luxe Tractor Plug is wound around the center-spindle, then reinforced with little mica washers that cannot peel and which make misfiring practically impossible.

The great International Harvester Company, after exhaustive tests, has adopted Bethlehem Spark Plugs as standard equipment. There's a moral here for every farmer in America.

Bethlehem Automobile and Truck Plugs are just as dependable as the famous Tractor Plugs. Studebaker, Marmon and 48 other manufacturers equip with Bethlehem plugs. Have you read "Hit or Miss?"? Your copy is here waiting for your name and address.

BETHLEHEM SPARK PLUG CORPORATION E. H. Schwab, President Bethlehem, Pa.



R. K. TIRES For Real Work!

A double-tread and chain-stitched rebuilt tire that not only never fails to do all you ask it, but does more—and then some! Twice as much fabric as an ordinary tire—and so full of real service that you can't overwork them. And that's why we guarantee them.

The following are the little prices of our guaranteed tires:

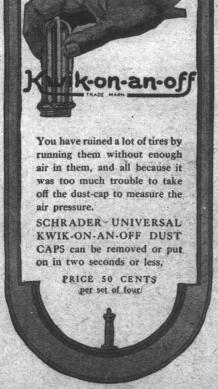
2 percent off for cash with order, 10 percent deposit required with all C.O. D. orders.

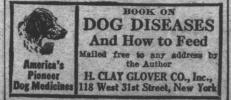
R. K. Tire Company 837 No. Broad St., Dept. C, Phila., Pa.

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





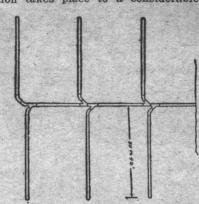




Farm Sewage Disposal

(Continued from page 951). serve a house thirty-by-thirty-two.

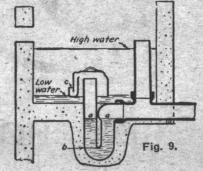
method of sewage disposal; but purifi- rapidly without objectionable odors or



extent, especially in the summer, in the ground about the outlet if the soil is not unusually heavy.

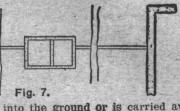
A Tank for Flat Heavy Land.

The problem of sewage disposal in flat and badly drained localities, and where the sub-soil is very heavy, is more difficult and entails a greater expense than in well-drained and rolling pumping out, stirring well with a long land. Nevertheless, some of our best land is the bottom lands. Where the land has very little natural drainage and where the sub-soil is heavy clay or gumbo, a double compartment tank, isfactory solution to the problem. The some direction from the house and the sewage flows into a small concrete sub-soil is fairly porous. Under such compartment about the same size as the tank in Fig. 1, from whence it overflows into a large storage or collection chamber, which is built sufficiently large to hold the accumulation of two or more weeks sewage. As often as the second compartment becomes full, the sewage is pumped out on the



land by hand, windmill, gas engine or a depth of fifteen or sixteen inches, any other power. The tank is located when an automatic syhpon flushes the fairly close to the house and often the sewage rapidly away into what is compower can be gotten by belt from a monly known as the "Absorption Syswashing machine, etc. The sewage is absorption system consists in two hunspread over quite an area by means of dred to two hundred and fifty feet of

nade by ripping one-by-twelve-inch es in length. The tank shown would boards into one-by-five and a half and one-by-six-and-a-quarter-inch lengths. It should be understood that the The pumping is usually done in the farm sewage is not purified by this evening and the sewage soaks away cation takes place to a considerable trouble with flies. In the cold months the sewage is simply pumped out on the snow, and it either soaks away

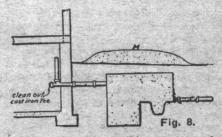


into the ground or is carried away by the spring thaws. The tank shown is four feet wide inside and requires thirty bags of cement and about six cubic yards of gravel to build.

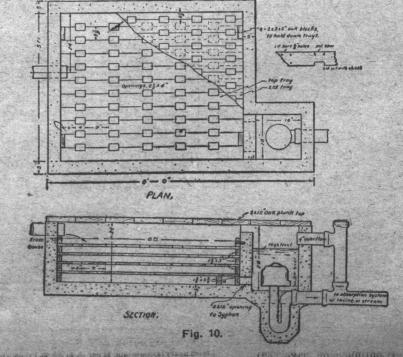
In case there is a contagious disease in the home, the sewage can be readily purified by the use of chloride of lime. Make a paste of four or five tablespoonfuls in a bowl and mix into a pail of water and dump immediately into the second compartment just before two-by-four.

The Tank for Rolling, Well-drained Country.

On the majority of farms, the land near the home has a good slope in



conditions it is possible to not only dispose of the sewage without pumping, but to largely purify the liquids after they leave the sewage tank. The sewage is first run into a two-compartment tank of the type shown in Fig. 4. These tanks are often made unnecessarily large. The first compartment of the tank is identical to that shown in Fig. 1. Here the sewage is liquified, after which it overflows into a smaller compartment, where it accumulates to shaft in the basement which could also tem," where the bacteria in the soil be used for running a churn, separator, attack and purify the liquids. The several lengths of wooden troughs, ordinary four-inch field drainage tile.



laid with open joints to a very gentle slope, not over two inches per hundred feet. Fig. 5. The syphon automatically flushes the sewage into the absorption system at a very rapid rate so as to distribute the sewage uniformly throughout all the tile. This action will occur once every eighteen to twenty-four hours. The field tile should be from fourteen to eighteen inches be-low the surface. If any part of the land above the tile is swept bare by the winter winds, it is wise to lay down a narrow strip of strawy horse manure to catch the snow and hold back the frost.

In case the ground about the tile is rather heavy and the water does not seep away readily, the tile ditch should be dug an extra six inches deep and filled with a half-foot of gravel before laying the tile, (Fig. 6). Gravel should also be used to cover the tile to a depth of about four inches. Often the land above the absorption tile slopes so rapidly that the tile could not be laid as shown in Fig. 5 and keep the desired slope; in which case the branches may be run at right angles to the main tile line, as is shown in Fig. 7.

Sometimes the ground is high and well-drained, but rather flat, and the tile would have to be run a considerable distance in order to have the absorption system within eighteen to twenty-four inches of the surface of the ground. In such cases if there are to be no plumbing fixtures in the basement, the tank may be put nearer the level of the ground, as illustrated in Fig. 8, and if desired a mound "M" of the excavated dirt could be placed over the tank to give it added protection from frost.

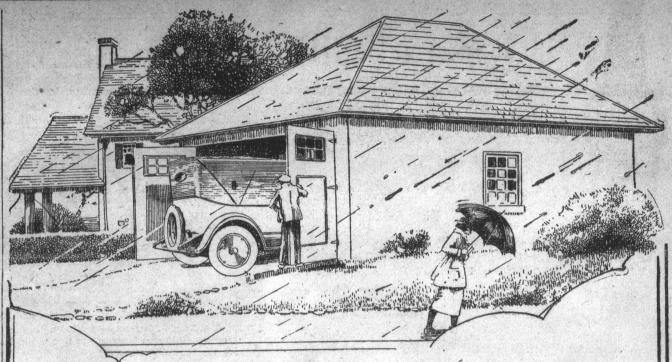
The Why of the Automatic Syphon. Since it is well to have an intelligent understanding of all the parts of the sewage disposal system, a brief space should be given to the principle upon which the syhpon works. It consists of two pieces, a cast iron U tube, usually for farm tanks three inches insidé diameter; and a cast iron cap which rests upon the U tube, (Fig. 9). The cap can easily be lifted in case the syphon clogs. Before the cap is set in place, the trap in the U tube is filled with water to the overflow at Then, as the sewage overflows from the first compartment into the second, the liquid rises about the cap and also underneath same, compressing the air imprisoned under the cap, and lowering the level at "a" in the left leg of the U tube. As the water level rises this air pressure increases, until it forces the water in the trap down to "b," when the compressed air escapes, and the sewage following the air fills the cap almost instantaneously, and the syphoning action starts and 200,000 strong, sturdy continues until the sewage is down to the bottom of the cap. The second chamber is provided with an over-July. Delivered safely flow, which will allow the sewage to at your door by pardribble away to the absorption system in case the syphon becomes clogged. The overflow also allows a circulation bred to lay strains. of air through the absorption tile-an important point.

The New Aerobic Tank.

A later type of sewage tank has been developed in recent years. It has given good results in western Canada and depth inside and the main compartment is five feet by six feet. This larger compartment contains four wooden trays, built up of one-by-six rough boards. (Do not use smooth lumber). These trays have two and a half-by-four-inch openings. The entering sewage spreads over the surface of the top tray and dribble down through the openings, over the lower hibtion pens, write for prices.

HILLSIDE POULTRY FARM, Hilledale, Mich. trays, the solid matter clinging to the surface of the upper trays.

(Continued on page 969).



Safe and Dry Under MULE-HIDE

Ask your lumber dealer. If he doesn't handle MULE-HIDE a letter will bring him samples.



RAIN may be allright for your crops but it certainly is hard on your car. No automobile will give maximum service if its only shelter is a frail, leaky garage.

But a weather-proof garage—that's different. It means longer life to your car, and very often saves the annoyance and expense of frequent repairs.

You can have a weather-proof garage if you see that it has a good, tight roof of MULE-HIDE—the Roofing with that remarkable service record:

"Not a Kick in a Million Feet"

MULE-HIDE is durable and weather-resisting. It is also fire safe, each roll bearing the Underwriter's red label of inspection and approval.

If you prefer a roof that is more attractive still, one that has the same extra strength and quality as MULE-HIDE Smooth Finish Roofing, ask your dealer for MULE-HIDE Slate-Kote or MULE-HIDE Shingles. They are surfaced with red or grey-green crushed slate in its natural, unfading tints.

THE LEHON COMPANY

44th to 45th Street on Oakley Avenue, Chicago

chicks for June and at your door by parcel post. From selected

PREPAID



CHICKS

Highest quality. By parcel post prepaid W. Leg. \$13 per 100 Br. Leg. \$14 " " Eng. Leg. \$14 " " Anconas \$15 " "

All our chicks are from selected breeders, kept on free range. Get your order in for some of these high grade chicks and be a successful poultry breeder. Special price on 1000 lots

Wyngarden Hatchery,

Box M,

should therefore be satisfactory in our HILLPOT CHICKS Order Now at Low June Prices milder winter conditions. Fig. 10 QUALITY CHICKS Order Now at Low June Prices 18,000 19 25 5 20 25 800 19 25 800 19 25 shows a top view and a side section of the tank. It is only two feet in death inside and the main compart.

QUALITY

QUALITY

White Lesborns \$18.00 50 25 Barred Rocks 18.00 9.25 \$.00 Prepaid to your door. Safe Delivery Black Legborns \$18.00 9.25 \$.55 50 White Rocks 25.00 12.50 7.00 down inside and the main compart. San not send C. O. D.

White Lesborns \$18.00 9.25 \$.00 White Rocks 25.00 12.50 7.00 down No. J. Wyandortes 25.00 12.50 7.00 down, N. J. Wyandortes 25.00 12.50 7.00 down,

POULTRY

CHICKS AND EGGS

Rose and Single Comb R. I. Reds. Barred Plymouth Rocks. Superior Color. Prolific Layers. Prepaid by parcel post and safe delivery guaranteed. Illustrated interlakes farm, Box 39, Lawrence, Mich.

BARRED ROCKS. Eggs from vigorous from heavy laying strain. \$2 per 15, \$5 per 45. Prepaid by parcel post. R. G. Kirby, Route 1, East Lansing, Mich.

White and Brown Leghorn and White Rock Pullets 8 weeks and 13 weeks old ready for immediate delivery.

We will sell one, two and four weeks old-Chicks to be shipped not more than 100 miles. Let us give you a description of this stock. All of these Pullets and Chicks are fine birds of excellent growth. American and extra high class English White Leghorns,

STATE FARMS ASSOCIATION Kalamazoo, Michigan

Manufacturers

Baby Chix at special low summer July, Aug. and Sept. free eatalog and price list. OHLS POULTRY & HATCHERIES.

EGGS from trapnested S. C.White Leghorns, Barron strain, also White Wyandottes that lay, at \$10.00 per hundred or \$2.00 per setting of 15 eggs.

MACALWHITE POULTRY YARDS, Caro, Michigan

B-A-B-Y C-H-I-C-K-S

Zeeland, Michigan Buy Your June Chicks White horns \$15 per 100; 50, \$7.75; 25, \$4.00. Delivere cels post paid. Send for price list of other va WASHTENAW HATCHERY, Ann Arbor

CHICKS CHICKS

Chicks Reduced Prices Bred-to-lay and exhibition produced the winners in the state demonstration farm work. Winners at Detroit, Toledo and Oil City, Pashows. After June Bith \$15,00 per 100. Postage paid SUNNYBROOK POLITRY PARM, Hillsdale, Nick

BABY CHICKS of superior quality, from record laying purebred stock. White Leghorns, Brown Leghorns, 318 per 100; Anconas, 229 Postpaid. Live arrival guaranteed. Why buy change stock when you get quality at low prices? Catalog free. SUPERIOR QUALITY HATCHERY, Cliaton, Mo

Chicks, Leghorns, Minoreas, Spanish, Houdans, Cam-berry, pines, Reds, Rocks, Orpingtons, Brahmas, Wyandottes. Tyrone Poultry Farm, Fenton, Mich

Additional Poultry Ads on Page 969

Our Boys' and Girls' Department



Why Is Your Mother Respected and Honored? Where Did America's Ideals of Liberty Come From? What Is the Biggest, Most Powerful Business in the World? Bruce Barton Answers These Questions in This Article, and Also the Question-

When Is A Boy Too Old To Go To Church? -By Bruce Barton (Through Courtesy of American Boy)

when I asked him why he had quit, cannot do it alone.

at? What is the church anyway? And young Americans living in 1920. at what age is a boy too old to take any more interest in it?

All of us have the very human habit central does not answer in a jiffy, we greatest respect? Who has influenced them highly; often they were regardwe should have had no colleges. cago by express, and if it happens to that we honor our mothers above ev- in Egypt for instance, the great iron be delayed twenty-four hours we think eryone else on earth. Perhaps it never statute of Moloch was heated white that the express companies are terri- occurred to you that honor to mothers hot, and mothers threw their screambly inefficient. We see a little unpainted church, with a preacher who is struggling to support his family on starvation wages, and we think that the church is losing out.

But if we could see the thousands of miles of wire, the great army of trained employes, and the huge central stations that are the telephone system, we would never make a telephone call without feeling a sense of mystery and awe. Think of the miracle of it-to be able to sit in your own home, and without lifting your voice, have it carried across rivers and mountains for hundreds of miles. If we stopped to remember that it took weeks to carry the news of Cornwallis' surrender from Yorktown to New York, we would have a little better appreciation of the marvelous feat that the express company performs when it carries our parcels from Chicago to New York not in weeks, or in days, but in hours.

IN the same way we would get a very different picture of the church if we could see its world-wide sweep. We would gain a new respect for the little unpainted buildings at the country crossroads, for it is not an isolated unit, alone and unrelated.

It is really a branch office of the and teaching the boys and girls of Tur- hood. key and Hindustan in its schools. Don't despise the little white church, sun where men still treat women as then because it is having a hard time. slaves. In the New Hebrides, for in-

cal headquarters of a business that is death and buried with him. That cus- girls have. bigger and finer and more inspiring tom would still prevail in the New than the business of the biggest trust Hebrides, probably, if it had not been or corporation that America has ever for a Christian missionary named John

To run a business of that size is a church. He carried reverence for wom- universities are all of them compara- ed it after his death because it was so

After he left me I got to wondering and in making our judgment we'll for mothers all over the world.

say "The telephone system is all gone your life the most? Your mother, of ed as a nuisance. Sometimes they to pieces." We ship a parcel to Chi- course. It is our pride, as Americans, were sacrificed to the heathen gods;

quit going to church last year; and women can help wonderfully, but they Christian missionaries have carried it started by ministers of the church. he answered that a church was doubt- But suppose we go a little farther ence of Christianity spreads, the lives vard, a Christian minister. William less a good thing in its way—a nice back. Every institution has a right to of mothers are made brighter and hap- and Mary, the second college, was place for women and children to meet be judged not by what folks say about pier. And any boy who is not too old founded by a Christian minister. Yale on Sunday mornings, but no real place it, but by what it really stands for, by to feel a love for his own mother, is was founded by a group of Christian for a man, or a boy who was almost the things that it has done. Suppose not too old to support an institution ministers. Amherst, Williams, Dartwe judge the church on that basis; that is making life more worth while mouth and scores of others were start-

ber of your household? Who is die rather than have any harm come

HAVE a friend of nineteen who job for men-big, red-blooded men; en to those savage islands, just as tively young. The first colleges were into every land. Wherever the influ- Harvard was founded by John Hared by church people and supported for about what he had said. Is a church omit every argument that is in any merely a place for women and children way theoretical. We'll limit ourselves a wonderful girl, and have a home said to be about four hundred and fifty of your own, and some boys and girls thousand students in colleges, univerthat will call you "Dad." When that sities, and academies in this country. HO is the most important mem- time comes you would be willing to And more than half of them are in institutions supported by the churches. of judging the big things of the world the one whom all the other members to those babies of yours. But do you so any boy who expects to go to colfrom a few small facts. We pick up of the family delight to honor? Who know what used to happen to babies lege ought to be glad to go to church; the telephone receiver, and because is the one to whom your father pays in the olden days? Men did not value for if it had not been for the churches

> Y OU may be sick some day, seriously sick; you may have to go to a hospital and that hospital may perhaps save your life. The chances are it will be a hospital that was made possible by the churches and still depends upon them for most of its support. There are thousands of boys and girls in the land whose parents died in their youth. Things would have gone very hard for them had it not been for the children's homes that the churches built and maintain.

> Indeed you can hardly mention a single institution or society which exists for the common good that does not have its roots in the church. And you know enough about trees to understand how short a time a tree can live after you have severed the roots.

WE celebrate next month the Fourth of July, the birthday of our nation. Have you ever stopped to think who it , was that gave us the ideals of liberty that have made America? Those ideals came across the ocean in a little boat named the Mayflower. In the cabin of that boat the first constitution was drawn up by a Christian minister and the members of his congregation. The government they established for the state was modeled after the government they had estabis a comparatively new thing in the ing infants into its flaming arms. In lished for their church. They chose world. But that is the fact. When Greece babies were left out on the their governors in the same way that as each congregation had chosen its

to stand up for the church; for the they came to manhood that they were church has been forever, and forever too old to go to church? Washington Remember, first of all, that it is just stance, it was the custom, when a man one part of a great big whole—the lo- died, for his wife to be strangled to will be, the best friend that boys and drove to church with his family every Sunday morning.

Daniel Webster was in church the You hope to go to college perhaps. Sunday before he died. His was the And who was it that started our greatest brain that America has pro-G. Paton who was sent out by the colleges? The State? No; the state duced; scientists studied it and weigh-

The First Lesson



Master Glen E. Miner, of Allegan, and His Purebred Holstein Calf. Who Knows But that Glen is Having His First Experiences in a Long and Successful Career as a Breeder.

greatest business in the world. That Jesus of Nazareth started His preach- mountains to die; in China they were they had chosen their preachers—each business—which is the church—has ing, women were hardly better than drowned. The world had a very poor state choosing its own governor withmore paid employes than the greatest slaves. It was an unheard of thing opinion of babies until Jesus of Naz- out the consent of kings or emperors corporation; it has headquarters in ev- which He did-He made them His com- areth came. ery country; its total budget amounts panions. Of the people closest to Him, He said: "Suffer the little children own pastor. The very institutions of millions of dollars. It whose names we know, more than half to come unto me and forbid them not; which we are proud to ca supports hospitals in every great city; were women. He gave mothers a wholfor of such is the kingdom of Heaven." are institutions that were developed it cares for thousands of babies in orphans' homes; it is curing sick people church, in all the ages, has been the ence for babyhood. His Gospel, where the organization and government of in India and China with its doctors; champion of women and of mother ever it has been carried, has changed the Christian church.

Remember, first of all, that it is just stance, it was the custom, when a man

the thought of men about children. There are plenty of places under the And any boy who some day expects to And any boy who some day expects to have boys and girls of his own, ought A no great—did they think when

great; and it was a Christian brain.

ed Sunday morning worship. "God which separates the tanks. respond to his call for support,

"I think it is the duty of every man to being exposed to the air most of the go to church. Frequently I have to time, not only does a liquifying action listen to sermons that bore me. But take place in this tank but an aerobic the church has contributed so enor- or purifying bacterial action also ocmously to civilization, its service to curs to a considerable degree. society is so great, that irrespective of The trays must not fit too-tightly. all other considerations I feel I ought They are prevented from floating by to support it and to attend whenever four blocks, as shown in the sectional I can."

en and children to go. It is not a about six inches, at "a," in order to let place; it is an influence, greater and the sewage get into syphon chamber. more powerful than any other in the world. An influence that has made motherhood mean what it means to you and me; an influence that has given childhood a place of reverence in the thoughts of men; an influence that has created our colleges, and our social service institutions, and inspired the men whose names we honor most. Washington did not outgrow it; Lincoln never was too old to worship under its roof; Webster and McKinley and Roosevelt, and all the men whose names we remember on the nation's birthday, were glad to do honor to its name and service.

steps of men like these!

TEXAS BOYS TO VISIT MICHIGAN.

ONE hundred and fifty Texas farm boys aboard a special train of five Pullman cars and observation coach, will tour Michigan and visit Detroit during August. The Farm Boy Special will be under the direction of the Texas Chamber of Commerce and the Texas A. & M. College, and the boys aboard the train will make the trip as prize awards for winning contests in corn, grain and cotton growing and stock raising. Thousands of Texas farm club boys are competing for places aboard the train; all expenses of each passenger will be paid, and no Sunshine Hollow Items boy will be allowed to make the trip unless he qualifies as a prize winner.

FARMERS ARE TAKING VACA-TIONS.

BY ONE OF THEM.

been a necessary part of the summer like to believe. program.

rule that it is best to get as far away er. He bought two kinds of poison, a from the hum-drum conditions of every half-dozen traps, and built over the day life to spend the outing, is espe- crib. Now he furnishes a self-feeder cially applicable to the farmer. The to his poultry and hogs and finds that man on land should endeavor to spend it is more profitable than doing the his holidays on or near the water. We same for the pests. recall a very refreshing lake trip on one of the Detroit & Cleveland Navi- best recipe for making fried cakes: gation Company steamers. The com- First you get a nice lot of holes, then forts of the boat, the visiting with peo- wrap some dough around them and ple who were thinking along entirely plunge them into the kettle kerplunk. different lines, the scenery, and above When they bulge, fish 'em out. all the cool nights, exhilarating air and Aunt Lucy Boyer always asks the well-cooked meals, put us in shape to conductor which end of the car to get return to our farm duties with double off of. He always tells her that the the energy we had when we left.

FARM SEWAGE DISPOSAL.

(Continued from page 967).

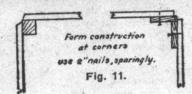
is only eighteen-by-eighteen, contains learns something new and is always is only eighteen-by-eighteen, contains learns something new and is always a three-inch syphon, and the sewage curious to find what in thunder is go
Barred Recks egg contest winners, eggs from strain a three-inch syphon, and the sewage curious to find what in thunder is go
by the same level in each compartment, ing to happen next.

Barred Recks egg contest winners, eggs from strain a three-inch syphon, and the sewage curious to find what in thunder is go
per setting prepaid by P. P. Circular free

Circular free
Circular free
Circular free
Circular free
Circular free
Circular free
Circular free
Circular freeis the same level in each compartment, ing to happen next.

there being a two-by-twelve-inch open-Abraham Lincoln almost never miss- ing at the bottom of the partition bless the churches," he exclaimed, sewage level slowly rises in the tank, "and blessed be God who, in this our each tray is covered with the liquid, hour of trial, giveth us churches." Nic- until, just as the top tray becomes olay and Hay, his biographers, say that covered, the automatic syphon flushes in all the crises through which he was all the accumulated sewage out of the called to pass the churches were al- tank-no, not all, for the solids cling ways at his back, ready and eager to to the surface of the trays, where they are finally reduced to a liquid state. It And Theodore Roosevelt declared: is claimed that on account of the trays

view. The lower tray is made in two sections, and the two-by-four under the LET us put away this idea that the section nearest the two-by-twelve op-church is merely a place for wom-



When this type of tank can be located near the surface of the ground, it is a very easy one to build, as one does not have to dig very deeply.

Building the Tanks.

All the tanks shown have been as simply designed as possible. The form work is only straight box construction. Surely no boy of your age or mine If the ground is fairly solid, no outside need be ashamed to follow in the foot- form is necessary, simply dig the pit carefully to the proper dimension, and at once put in a five-inch bottom of slushy concrete, and after about two hours, lower the inside form to place and put in the side walls. Leave the form in place at least three days, then remove carefully. One should not use too many nails in the form work. The corners should be built up by either method shown in Fig. 11, else it will very difficult to get the boards out.

In conclusion, do not let any imaginary obstacles stand in the way of securing a modern plumbing system in the home. Most of the seemingly difficult problems will not loom up so large when one starts in to solve them.

By Rube Rubicon

Solomon Cohn says that the mouth should be largely used for eating. In other words, he approves of sawing wood and keeping still. Folks say that Solomon has made lots of money and FARMERS are rapidly getting the some don't like him very well, but he vacation habit. The urge put up is a well established patron of the loon them by the great demands of a cal bank, came in mighty strong on all hungry world has so drawn upon their the war drives and isn't half as tight bodily reserve that vacations have as some of the spendthrifts in town Paul Morton found that the rats and

In this respect the well-established mice used his corn crib for a self-feed-

Lawrence Morgan says this is th

car stops at both ends, which seems to ease her mind and make the city travel free from worry.

Uncle Ned Morgan is nearly ninetytwo years old. He says he will never A small second compartment which get tired of living as every day he



Live Dealers Sell **Carter White Lead**

All over the United States, in every community, are found reliable paint dealers prepared to supply genuine Carter White Lead in reasonable quantities right out of stock, or to fill large orders promptly.

The mere fact that nearly 10,000 well informed paint dealers sell and recommend and probably 100,000 professional painters use Carter White Lead, "The Lead With the Spread, " is convincing testimony that it makes good paint.

That Carter White Lead and pure linseed oil at today's prices provides a paint that is most economical in the long run and relatively low in first cost is a fact every buyer of paint should keep in mind. Ask your painter or paint

Carter White Lead is itself the whitest of white paint; at the same time by the adding of colors, obtainable from any dealer, it can be tinted to any shade desired.

Carter White Lead Co., Chicago, Ill.



POULTRY

Special Prices on Chicks

From June 15th on 20,000 chicks per week.



By parcel post prepaid.
Delivered to you. Guarantee Livé delivery. Our chicks are hatched from pure bred farm range stock. Stock of good quality. Bred for heavy eg production We have Utilty and Exhibition Quality. Don't fail to take advantage of the prices below for these chicks will be money makers, for eggs and poultry are going to

Hubers Reliable Hatchery, Fostoria, Ohio. East High St.,



DADY OHIOVO

THREE MILLION FOR 1920. We have chicks hatching every day in the week and every hour in the day. Immediate delivery on the follow

Immediate control in preeds. 100
S. C. White Leghorns 17.00
S. C. Brown Leghorns 17.00
R. C. R. I. Reds
Barred Rocks
Other brown eds delivered in one to three weeks,

Write today for catalog, free. Mail your order now for prompt delivery THE SMITH STANDARD COMPANY, 1969 W. 74th St., Cleveland, Ohio.

CHICKS We have shipped thousands each season since 1904. Are booking orders now for Spring delivery, booklet and testimonials. FREEPORT HATCHERY, Box 12, Freeport, Mich

DAY OLD CHICKS S. C. W. Leghorns. Exclusively. Vigorous, sturdy chicks. From heavy laying strain. Seventh season. Send for price list to OITY LIMITS HATCHERY, R. No. 5, Box 11, Holland, Michigan

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

HATCHING EGGS Plymouth varieties,) Wyandotte, Ancona, and Rouen Ducks. Cat alog 2c. Sheridan Poultry Yards, R.4, Sheridan, Mich

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

CHICKS: \$13.00 per 100 Standard Bred White and Brown Leghorns. Bred to lay large white eggs. Parcel post will bring them up to your door. Safarrival guaranteed. Write for catalogue or order direct. Wolverine Hatchery. R. 2. Zeeland, Mich.

LAYBILT S. C. W. LEGHORNS

large, great layers, pure white. Strong, Day-Old Chicks. Hatch every week. Guaranteed delivery, full count, alive and lively July chicks \$16.00 per 100. Parcel postpaid. V. A. MORSE, IONIA, MICHIGAN

LOOK! CHICKS \$14 A 100 UP! By insured parcel post, postage paid. 40 breeds chicks, 4 breeds ducks. Get June and July chicks for January layers. Catalog free, stamps appreciated. NABOB HATCHERIES, GAMBIER, OHIO

R.C. Brown Leghorn eggs \$1.50 for 15, \$8 per 100, Kulp and Gale strains, M. Pekinduck eggs \$1.50 for 8.
MRS. CLAUDIA BETTS, Hillsdale, Mich.

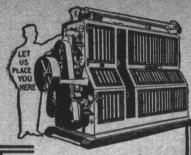
Cilver Laced Golden and White Wyandotte eggs from D best quality only \$1.75 per 15, \$3,25 per 30 by prepaid parcels post. C. W. Browning. R.2. Portland, Mich.

S.C. Brown Legharns Excellent layers. Farm range 12.25 each. Floyd Robertson, R. 1, Lexington, Ind.

WHITE WYANDOTTES, free range farm flock improved by 16 years careful selection. 15 eggs 2.59, 30 4.50; 50 or more .10 each by mail prepaid. Cockerels 3.50, 2 for 35. Vern Noore R. 1 Hartford, Mich.

White Plymoth Rocks Choice breeding, Eggs 15, \$2.00:
RICHARD M. GRETTON, Mason, Mich.

Please Mention The Michigan Farmer When Writing to Advertisers.



You Can Make \$500 to \$1000 a Month Milling "FLavo" FLour

in your community on this New Won-derful Mill — no previous milling ex-perience necessary

Be a Miller

Be a Miller

and have a dignified, permanent business that will earn you steady profits the entire year.

Grind your home-grown wheat, supply your community with flour and feed. You save the freight on the wheat going out, and the flour and feed coming in.

Besides earning the regular milling profits you get the extra profit of making "A BETTER BARREL OF FLOUR CHEAPER" on the famous "MIDGET MARVEL." The new process, self-contained, one-man, roller mill that is revolutionizing the milling industry. It requires less than half the power and labor of the usual roller mill and makes a creamy white, better flavored flour that retains the health building vitamines and the natural sweet flavor of the wheat.

Our customers are given the privilege of using our Nationally advertised Brand.

FLavo" FLour

"Famous for its Flavor"

We furnish the sacks with your name printed on them. OUR SERVICE DEPARTMENT examines samples of your flour every thirty days and keeps your products up to our in business with our "Confidential Selling Plans" and teach you the business of milling and selling flour. You can start in this most delightfully profitable business, with our 15 barrels per day, mill with as little as \$3,500 capital. Other sizes up to 100 barrels.

Over 2000 communities already have Midget Marvel Mills. Start now milling "Flavo'Flourin your own community before some one else takes advantage of this wonderful opportunity.

Write today for our Free Book, "The Storp of a

The Anglo-American Mill Co. 814-820 Trust Bldg., Owensboro, K





Woman's Interests

The Sweetening Problem

cially in families with growing chil- ginger, a little grated orange peel. dren, where a certain amount of pure Good, but much different in texture sweets is necessary for proper growth. and color are: hard for us to think up substitutes solved in one cup of boiling water, two nutmeg.

freight charges tacked on to the price. three are Marion Harland's.

but we can still get it in many places, loaf cake. and appetizing sweet.

save the cook hours of baking. Then These are especially good eaten hot. there are the sweet fruits we can buy more a little syrup or strained honey ing teaspoonful of baking powder. Beat cup of shortening, three eggs and one will do as well as sugar.

Dates, raisins, prunes and figs added to bread or rice puddings will give enough sweetening without the addition of sugar. Use your own recipe, omitting the sugar and adding a cup of raisins or a scant three-fourth of dates or figs chopped. Although the price of these fruits may sound high, they are all about on a level with sugar now. Strained honey or syrup can also be used to sweeten the breakfast cereal, if the family can't eat it without sweetening. Cereals really need no sweet, however, as the starch and sugar belong to the same class of foods. The addition of rich milk or cream only makes a better balanced food than the usual way of serving with sugar and cream or milk.

The American palate craves cakes, and American cooks try to please. White cake without fine granulated sugar is an impossibility, but there are many dark cakes which can be made with molasses, syrup or honey, and which are really good. Gingerbread, for instance, may be made with molasses, and here is a recipe for the best you ever ate. It may be baked in a loaf or in gem tins, and is light, fluffy and palatable:

Fine Gingerbread.—One-third cup of butter, one cup of molasses, one cup

you should be able to get it without ally small. Of those following the last utes. Then uncover and brown.

price-though I believe we did grum- spoon of baking powder, one-eighth flour should be added. ble then at having to pay twenty-five teaspoon of soda-honey always needs

at meals in limited portions will satis- two of granulated sugar, a fourth tea- of raisins may be added.

and serve as desserts-figs, dates, rais- blespoons of strained honey into a half and one-half teaspoon of cloves.

H OW do you manage about sug- of boiling water, one egg, three cups vigorously for one minute, then pour ar?" is the cry whenever house- of flour, one and one-half teaspoons of ar?" is the cry whenever house- of flour, one and one-half teaspoons of into shallow pan or gem tins and bake keepers meet these days. The soda, one-half teaspoon of salt, one tea- one-half hour covered. Uncover and problem is a bothersome one, espe- spoon of cinnamon, two teaspoons of brown. Have a steady heat, not too intense.

Dutch Honey Cake.-To one pound of bread dough add one pound strained But as we all got used to substitutes Small Spice Cakes.—To one cup of honey, a quarter-cup of butter, half a during war times, it shouldn't be so molasses add one teaspoon of soda dis- teaspoon each of cinnamon, cloves and Work these into the dough tablespoons of melted butter, one tea- and add the grated rind of a lemon, a To begin with for you bee-keeping spoon of cinnamon, one half teaspoon quarter pound of candied ginger and farmers, there is honey. Nothing, un- of cloves, mace and salt, and three citron, both shredded, the yolks of four less it be maple sugar and syrup, is so cups of flour. Beat until smooth and eggs beaten light, and the whites of satisfactory a substitute for cane sugar bake in gem tins in a moderate oven two, also beaten, a half teaspoon of as honey, and, if you haven't it your- There are many recipes for cakes soda, dissolved in a little hot water, selves there is usually someone in your made with honey. These nearly all call and one cup of flour. Make into a loaf, neighborhood who does keep bees, so for some sugar, but the amount is usu- and bake covered for forty-five min-

Cakes to which sauce or jam is ad-Then there is maple sugar. Time Honey Cake. One-half cup of butter, ded may be made and syrup substitutwas, not so many years ago, when one-half cup of granulated sugar, one- ed for the sugar called for. A larger many farming communities in Michi- half cup of strained honey, two eggs. measure of syrup than the sugar called gan had enough "sugar bushes" to sup- Beat these until creamy yellow. Add for is needed, as corn syrup is not so ply the neighborhood at a reasonable two cups of flour, one rounding tea- sweet as sugar. Usually a little more

Apple Sauce Cake.-One and onecents a quart for maple syrup. Maple a little soda-sifted together, and one half cups apple sauce, one and one-half syrup isn't so plentiful with us now, teaspoon of caraway seed. Bake as a cups syrup, one-half cup butter, three and one-half cups of flour sifted with and this furnishes a most satisfactory Honey Cakes .- Sift two cups of flour three teaspoons of baking powder, oneand stir into it a cup of sour cream, half teaspoon of cloves and nutmeg. Either honey or maple syrup served two tablespoons of strained honey and and one teaspoon of cinnamon. A cup

fy the craving for sweets, and help the spoon of cinnamon and a half teaspoon Blackberry Jam Cake. One-half cup family to forget they are not getting of ginger. Beat all thoroughly and add of butter creamed, two eggs well beatthe cakes and pastries they have been an even teaspoon of soda dissolved in en, one and one-fourth cups of syrup. accustomed to having. This method two tablespoons of hot water. Beat one cup of blackberry jam-or any jam of "sweetening" the family, will also hard again and drop in gem tins. three tablespoons of buttermilk, one teaspoon of soda, two cups of flour Honey Gingerbread.—Beat two ta-sifted with one teaspoon of cinnamon

ins and bananas. The first three fruits cup of butter, first warming the butter Dried Apple Fruit Cake.—Three cups may be cooked with rhubarb or other slightly. Whip to a cream and then of dried apples soaked over night in tart fruits and serve as sweeteners for beat in a tablespoon each of powdered cold water. Chop next morning and them. Stewed rhubarb, to which has sugar and ginger. Have ready four stew till nearly soft in three cups of been added a fourth of a teaspoon of eggs, yolks and whites beaten light molasses. Add one cup of chopped soda and a half a cup of raisins or separately, and add these alternately raisins and stew a few minutes longer. chopped dates or figs will need little to other ingredients. Last of all, add Remove from stove and let stand until more sweetening. If it does require three cups of flour sifted with a heap-cold. Then add three cups of flour, one



Embroidered Over-Blouse

NO garment in the summer girl's wardrobe will prove more popular than the over-blouse. For ordinary wear there are the plainer ones of linene or percale. while embroiderysimple or elaborate -is found on those of the finer materials. No girl could resist the charms of this blouse of Copenhagen crepe embroidered in white wool, with just enough of the black wool to "set it off." The short kimona cut sleeve means comfort for even the most strenuous outof-doors activities.

teaspoon of soda. Beat well and bake in a slow oven. This makes two large The raisins may be omitted.

of spices, though these are not called for in the original recipe.

Molasses Layer Cake.—One egg and the yolk of another broken into a coffee cup. Add five tablespoons of cold water, three of melted butter, and fill cup with molasses. Pour into mixing bowl, and add one and one-half cups of flour sifted with one level teaspoon of soda. Bake in two layers and put together with pie frosting made by beating the white of second egg stiff, and gradually beating in three tablespoons of powdered sugar.

The cake is improved by the addition

Cocoanut Pudding.—Stir into one pint of milk one-half cup of strained honey or three-fourths cup corn syrup, add the yolks of two eggs beaten, oneteaspoon of vanilla, two tablespoons of grated coacoanut and five-eighths cup of fine cracker crumbs. Bake in buttered pudding dish until it thickens; remove from oven, spread top with beaten egg whites and return to brown.

Duff is always a welcome dessert. There are many recipes for this but here is one proven reliable.

Sailors' Duff .- One egg, two tablespoons of butter, five-eighths cup of molasses, one teaspoon of soda dissolved in one-half cup of boiling water, and one and one-half cups of flour. Steam one hour. Serve this with lemon sauce, fruit sauce or a whipped cream sauce made by beating the yolks of two eggs with a half cup of powdered sugar, and then beating into it one cup of whipped cream.

For a dessert which will make the family forget a sugar shortage and swear off sweets for a week, try plain duff with syrup sauce.

Duff with Syrup.—Mix a dumpling batter with one cup of flour sifted twice, with two level teaspoons of baking powder, one of salt, and enough water to make a stiff dough. Boil one cup of syrup with a lemon sliced very thin, and drop the dumplings into the boiling syrup with a teaspoon. Cover closely and boil ten minutes. Serve with the syrup in which they were cooked as a sauce. This makes an extra sweet dessert. If you use your own home-made maple syrup it may need a little water added to prevent candying before the puddings are done. A. L. L.

Powder Harmless to Humans.

Biting, stinging ants and filthy roaches can't live in homes that use the Hotstra gun. It "shoots" a chemical powder that closs the pores of their akins through which they breathe. That kills them.

Special conferences will be held at M. A. C. during the college summer term, which runs from June 21 to July 30 this year, will include a conference for teachers of Household Art and Domestic Science, June 29 to July 2; a school of instruction for women in political organization, June 29 to July 2; the fifth annual conference for leaders of Boys' and Giris Clubs, July 6 to 9; and special meetings for science teachers and teachers of agriculture.

These insects the mreals to Humans.

Biting, stinging ants and filthy roaches can't live in homes that use the Hotstra gun. It "shoots" a chemical powder floats everywhere — above, below, and on all sides. Not a poison. Can't hurt humans. But it's method they breathe. That kills them.

DEATH TO FLIES

In dwelling, dairy, etc. Kills mosquitoes, bed bugs, chicken mites and lice, garden pests and many others. Used in the big ford plant at Detroit and by hospitals, state institutions, etc., etc. Druggists and grocers sell loaded guns at 15 cents.

Special conferences will be held at the mical powder floats everywhere — above, below, and on all sides. Not a poison. Can't hurt humans. But it's not a powder floats everywhere — above, below, and on all sides. Not a poison. Can't hurt humans. But it's not a powder floats everywhere — above, below, and on all sides. Not a poison. Can't hurt humans. But it's not a powder floats everywhere — above, below, and on all sides. Not a poison. Can't hurt humans. But it's not a powder floats everywhere — above, below, and on all sides. Not a poison. Can't hurt humans. But it's not a powder floats everywhere — above, below, and on all sides. Not a poison. Can't hurt humans. But it's not a powder floats everywhere — above, below, and on all sides. Not a poison. Can't hurt humans. But it's not a powder floats everywher

TO PAINT NEATLY.

An amateur painter cannot avoid getting some paint on the hardware, such as locks, hinges, handles, pulls, etc. This gives the finished job a blotched appearance and partly spoils the effect of the new coat of paint.

Here is a little trick of the painter's trade that will serve the amateur painter well. Before beginning to paint the woodwork apply a coating of vaseline to the hardware; let the paint dry thoroughly; then wipe the vaseline off the metal parts and the paint will come off with it. This insures a neat, clean job of which the painter may be THE SIGN OF



QUALITY

The Brawn That Made America Great Came from Flour

The pioneer men and women whose strength and stamina laid the rock-like foundations of America's greatness were bread eaters. In wholesome bread made from good flour they obtained the nutrition that gave them strength to work and achieve.

For nearly sixty years the particular women of Michigan have used

Lily White

"The Flour the Best Cooks Use"

Lookforthe ROWENA trade-mark on the sack

In this flour they found the means to give their families the food main-stay. Save for milk, bread is the food of greatest nutrition. LILY WHITE is scientifically milled to retain all the nutrition values of the wheat. Only the best wheat obtainable is used. It is cleaned four times, scoured three times and actually washed before going through the processes of breaking and milling. Every atom of dirt and undesirable material are eliminated.

This is why three generations have found bread made from LILY WHITE FLOUR delicious, palatable, wholesome and healthful. Looks good, bakes to a perfection that makes "homey" women proud. The same with biscuits and pastry. LILY WHITE is guaranteed to give perfect satisfaction.

VALLEY CITY MILLING CO. GRAND RAPIDS, MICHIGAN

"Millers for Sixty Years"

THIS GUN KILLS ANTS AND ROACHES

These Insects Die by Thousands-Powder Harmless to Humans.





Michigan Farmer Pattern Service

CATALOG NOTICE.

Send ten cents in silver or stamps for our up-to-date spring and summer 1920 catalog, containing 550 designs of ladies', misses' and children's patterns, a concise and comprehensve article on dressmaking, also some points for the needle (illustrating thirty of the various, simple stitches) all valuable hints to the home dressmaker.

No. 3632—Girl's Dress. Cut in four sizes, 8, 10, 12 and 14 years. A 12-year size will require 4½ yards of 27-inch material for the dress, and 2½ yards for the "jumper" or overblouse. Price 12 cents.



No. 3267—Girl's Dress. Cut in four sizes, 6, 8, 10 and 12 years. A 10-year size will require 3½ yards of 40-inch material. Price 12 cents.

No. 2880-Child's Set. Cut in four sizes, 6 mos.: 1, 2 and 3 years. Size two will require of 36-inch material, two yards for the dress, %-yard for the sack, and %-yard for the bonnet, sizes with a quarter yard of lining. Price large of 36





No. 3266—Child's Play Dress, Cut in four sizes, 2, 4, 6 and 8 years. A four-year size will require 3% yards of 27-inch material. Price 12 cents.

No. 3249—Porch or Home Dress. Cut in seven sizes, 34, 36, 38, 40, 42, 44 and 46 inches, bust measure. It will require 61/6 yards of 36-inch material for a medium size. The width of skirt at its lower edge is two yards. Price 12



Ladies' Apron. Cut in four No. 2947 Small, medium, large and extra Size medium requires 4½ yards 36-inch material. Price 12 cents.



The Feed That Makes the Milk Yield



IF you have not made up your mind as to what is the best feed for large milk production, for either summer conditions or heavy feeding in winter, visit the dairy farmers in the eastern states and see what they feed. These farmers are supplying large markets with milk. Their principal production is dairy products.

Ask them what high-protein feed they are using to make up the main strength of their rations. The answer will invariably be that they are feeding Buffalo Corn Gluten Feed, and have fed it for a good many years—and, in a great many cases, their fathers fed it be-

Corn Products Refining Co.

Write to NATIONAL STARCH COMPANY, 606 Ford Bldg., Detroit, Mich.

BREEDERS' DIRECTORY

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

Wildwood Farms Angus

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

Our herd is under State and Federal Supervision.

WILDWOOD FARMS

ORION, MICHIGAN

W. B. SCRIPPS, Prop.,

Sidney Smith, Supt

ANGUS WOODCOTE

Trojan-Ericas and Blackbirds. Write for 1920 Bull sale list WOODCOTE STOCK FARM, Ionia, Mich.

For Sale At reasonable prices. Registered Aber ten to twenty-two months of age. LANG BROS, Davison, Mich

GUERNSEY BULL CALVES whose 19,460.20 milk, 909.05 fat. Their mother's sire's dam made is, 109.10 milk, 778.80 fat. Battle Creek, Mich.

Registered Guernseys

For Sale Registered Guernsey bulls. May Rose write. John Ebels R, 2 Holland, Michigan.

GUERNSEYS —REGISTERED BULL CALVES Containing blood of world champions.
MICKS' GUERNSEY FARM, Seginaw, W.S. Mich

Herd Federal inspected. Bull calf Guernseys. 7 mos. old, sired by a son of Imp. Spotwoods Sequel. Dam, a high class cow of A. R. breeding. \$150 takes him. 5 others 3 to 6 mos. old priced right. Satisfaction guaranteed. G. W. & H. G. Ray. Albion. Mich.

Guernseys Five pure bred Guernsey Bulls. Write your requirements. WALTER PHIPPS FARM, Geo. E. Currie, Mgr., 80 Alfred St., Detroit.



The Wisdom of Keeping Strictly Dairy Cows

The class of cows that should be kept for dairy purposes is well illustrated by a farm survey made by P.H.Ross, coun-ty agent of Leavenworth County, Kan-sas, in which he states; "Blood will tell." sas, in which he states; "Blood will tell."
The greatest producers and the most profitable producing cows always have been and always will be of dairy breeds, bred to produce milk and butter economically. Fifty-nine farms included in this survey were dairy farms, and the comparison with other breeds in producing milk and profits, showed \$38 more return for the Holstein-Friesian per year per cow than the other breeds. per year per cow than the other breeds, and more than three times as great an income per cow as did the dual purpose

Send for the valuable Holstein booklets. They are sent free.

164 Hudson Street Brattleboro Vermont.

BUTTER BOY ROSINA PRINCE 257572. Herdsire Son of King Ona, His sire is from a 30 lb.cow that made 1345 lbs. in one year and Dum Butter Boy Rosina 2nd 200540 made 29 lbs., and almost 800 lbs. in the months, she has a 33 and 34 lb. sister, Have some fine Bulls and Heifers and some heifers bred to him, all from A. R. O. Cows, with records from 22 to 30 lbs. Hampshire Hogs—Fall Boars ready for service, and gilts. Also booking orders for Spring Pigs. Belgium, Percheron Stallions and Mares. Imported and American bred. Wrife or come and see us. SAGINAW VALLEY STOCK FARM. Saginaw, W. S., Michigam ELI SPRUNGER & SON, Proprietors.

Holsteins of Quality

Our County Farm Bureaus

Continued from page 953). ing the normal growing season in Daniel Fuller, Vern Wheaton, William ing labors we now have Folk's White-year the organization did \$100,000 cap Yellow Dent. It's fairly early ma-worth of business. turing and is of the dent type, which Arthur Landon, an extensive cattle gives more weight of shelled corn per and sheep feeder, of Springport, is a bushel of ears than most any other of member of the executive committee of the dent varieties of corn grown in the County Farm Bureau. Mr. Landon Michigan, makes it especially valuable operates a two-hundred-and-forty-acre for Michigan conditions. Yields of one farm, and is a comparatively young hundred and one hundred and ten bush- man. His success as a farmer, and els per acre are nothing uncommon on keen insight into farmers' problems Mr. Folk's farm and the crop seldom qualifies him for the new position. fails to make full maturity before frost Springport farmers are deeply intercomes in the fall. Folk's reputation ested in cooperative work and the shipas a corn breeder is not confined to ping association did a business of \$200;his own county and state. In 1916 his 000 last year. The officers are: D. corn won the grand sweepstakes at the W. Peters, president; W. C. Ford, man-National Corn Show, and he has won ager; Elmer Losey, Guy Lininger, A. many other state and national cham- J. Courtright, directors.
pionships. His daughter is an enthu- M. L. Noon, president of the Jacksiastic corn breeder and exhibitor and son County Farm Bureau, owns a fine has won nearly one thousand dollars two-hundred-and-ten-acre farm southworth of prizes at the leading fairs east of Jackson. He is well known to and exhibitions. Mr. Folks breeds the farmers of the county and state. small grain seeds as well as corn. He Mr. Noon breeds registered Holstein is deserving of the thanks of his fel-cattle and Duroc Jersey swine, and is low farmers for his efforts to improve prominent in breeding and organiza-

executive committee. He owns and farmer or to build up his community operates a farm and is an active sup- he has made a host of friends among porter of all movements to make farm the farmers and the business men of life more attractive and the business his county and state. Jackson county of farming more profitable. People made a wise choice of leaders when it from his community feel that he will selected M. L. Noon for president. prove an able member of the committee.

calm county.

shipping association is ready to begin dent of the County Farm Bureau the business. The officers are: Chauncey present organization can always de-Allen, president; Henry Sherman, pend upon him for sound advice and manager; Norman Carr, Luther Wat- vigorous support. son, Roy Kintigh, Glenn Folks, F. O.

ger; Fred Hadley, John Lipert

Householder, directors.

Fifteen High Grade Holstein Cows For Sale siastic meeting of the Farmers' Coop-pleted so that our seventeen hundred E. A. HARDY, Rochester, Mich. erative Association. The new by-laws members will be working along the

adopted makes it possible for them to owns and operates a one-hundred-and- do business through the State Farm ninety-acre farm where he is devoting Bureau as soon as both organizations special attention to breeding improved are ready to function. It was voted to seed corn. In 1909 he began his work go ahead and secure new quarters bewith some original stock developed on fore the shipping season begins. Offihis farm. All these years he has been cers of the Brooklyn Cooperative Asselecting and breeding corn with the sociation are: Dr. H. F. Palmer, presidea of developing a variety that would ident; Luther Cook, secretary; Henry mature a maximum of sound ears dur- Cash, E. B. Ambler, Emory D. Neeley, Michigan. As a result of his painstak- Randall, E. J. Wilber, directors. Last

their crops of corn and small grains. tion work. Always ready to join in any Ed Ford represents Hanover on the movement for the betterment of the

L. Whitney Watkins, of Manchester, formerly president of the Jackson The farmers at Hanover have organ- County Farm Bureau, is generally recized a shipping association and have ognized as one of the real agricultural shipped about \$50,000 worth of live leaders of Michigan. On his two thoustock during the past year. William sand-three-hundred-acre farm a few A. Reed is president; Fred Folks, miles from Manchester he breeds Anmanager; Harry Estry, Wayne Weeks, gus cattle, Shropshire sheep and pedi-John Lowell, Fay Conklin, directors. greed grains. Cattle and sheep are fed Gifford Patch, of Clarkslake, a mem- for market. One of his big projects is ber of the executive committee of the commercial orcharding and he owns County Farm Bureau, owns and oper- one of the best young apple orchards ates a splendid one-hundred-acre farm in the state. Mr. Watkins has always where he grows pedigreed grains. Mr. been active in public affairs and his Patch is recognized as a practical judgment is sought by many farmers farmer and an active worker for all throughout the state. Being a memthings that go to build up the business ber of the State Board of Agriculture and make the country a better place places him in a position to render a in which to live. His son, Gifford fine service to the farmers of his coun-Patch, Jr., is county agent for Mont- ty and state. While his position on the State Board of Agriculture rendered it At Pulaski the newly organized impossible for him to serve as presi-

Butler, Don Rice, Levi Bates, directors. THE present county agent, Mr. C. In the vicinity of Concord the farmers have made rapid progress with county and graduated from M. A. C. their organization. The Concord Ele- in 1912. Mr. Ballard taught school at vator Association during the several Hudson, Michigan, and Woodbine, New months it has been doing business has Jersey, and served five years as county handled \$80,000 worth of business, agent in Dickinson county in the up-The officers and directors are: Earl per peninsula. Thoroughly familiar Wetmore, president; Clyde King, man- with both the practical and scientific Fred side of ers problems he is taking Householder, Harry Burke, Marvin hold of his new work in a manner that Woodruff, Rupert Cox, William War- is pleasing the farmers of Jackson county. While discussing his new work The Concord Shipping Association Mr. Callard said: "I want to push has shipped more than \$200,000 worth this seed work on a big scale and of live stock in the past eleven months. make it profitable as a business for Its officers are: T. N. Hubbard, pres- our farmers. I am confident that it is ident; Clyde King, manager; Marvin going to prove a highly profitable bus-Woodruff, Fred Hadley, Walter Dodes, iness as soon as the growers are in a Ed Wilcox, George West and Fred position to capitalize on their efforts along these lines. We aim to work with the State Farm Bureau in every AT Brooklyn, Mr. Ballard and the possible way. Another problem is that Circuit Rider attended an enthu- of getting our organization work com

ate attention."

right lines and getting direct benefits ilo Prices Smashed from their county and state organizations. Other projects will be given due attention, but I consider the crop improvement and organization prob-

Startling Reductions in Saginaw Redwood Silo Prices Made Possible by Purchase of Redwood from Government-Saves \$100 to \$300 per Silo

· One of the pioneer Holstein breeding farms in the state is Boardman Farms near Jackson. The farms comprise two hundred and eighty acres, which have been devoted to the maintenance of a Holstein herd since 1906. The present herd sire is King Korndyke Oriskany Pontiac, a son of the famous King Korndyke Pontiac Lass, who is now one of the herd sires at Arden Farms, and the only son of a fortyfour-pound cow having a thirty-fivepound daughter. The dam of this bull is Oriskany Keyes, who has a record of 31.33 pounds, giving the bull an average of 37.78 for his two nearest dams. The Junior herd sire is King Sadie Vale Korndyke. His sire is the great Korndyke Sadie Vale, known throughout the country as one of the greatest sires of his generotion. He is the only son of a forty-pound cow having a for ty-pound sister and a forty-pound daughter. In his blood lines we find a combination of the great Sadie Vale Concordia family with that of King Segis in the closest possible degrees His dam. Nellie Veemen Pontiac, herself a thirty-pound cow, with two previous records over twenty pounds, is a daughter of Sir Korndyke Artis, fifty-eight A. R. daughters, and from

lems the ones which demand immedi-

In looking over the females we find that nearly half of them are granddaughters of King of the Pontiacs, while there is one splendid daughter of this bull and two daughters of It, one of these being a thirty-pound cow, with a thirty-pound dam. The herd was founded by John W. Boardman, but is now owned by his two sons, John W., Jr., and Captain Harry, who have recently taken charge of the business. The brothers are pushing the business of breeding Holsteins aggressively ond devoting special attention to Duroc Jersey swine and poultry.

the great century sire, Sir Veeman

Hengerveld-a combination that has produced seven thirty-pound cows to

H. F. Probert, proprietor of Oakcroft Farm, is a member of the County Farm Bureau executive committee. For many years Mr. Probert has been very prominently identified with the Jersey interests and some of the famous animals of the breed have been bred and developed on this farm. The herd was founded in 1893, and at times has numbered one hundred and fifty head. During all these years it has been the policy of Mr. Probert to breed and sell the best of the breed. The herd has always been one of the foremost in testing. One of the resolutions of the owner has been to never allow a cow to remain in the herd unless she could show her ability to make six hundred pounds of butter in a year, unless for some special reason. A rigid system of testing out the future her sires has always been practiced before they were used in the herd. Among the requirements being that he must have the power to transmit large milk-producing qualities to his daughters, ten thousand pounds being the mark, at maturity. In testing the cows feed and with regular care, and in all these years no tests have been made on any other basis. The aim being to develop a high average of useful cows on a rational system of breeding, feeding and care. For more than twentyfive years a system of line-breeding has been practiced and the selections have been governed by economical production. Oakcroft is located two and one-half miles from the city of Jackson. The farm consists of two hundred and fifty acres and is one of the most beautiful and thoroughly equipped breeding establishments in the dams 37.61, 6 nearest 33.93, (Continued to page 977).

This is without question the biggest silo offer we have ever been able to make. This Redwood was purchased by the Government for war purposes. It was not used and due to our big purchasing power we were able to buy the whole lot at an astonishingly low price-much lower than present market prices. We are passing these savings along to you.

75 Ton Silo Only \$377

Think of it, a 73 ton Saginaw Redwood Silo for \$377.00. It is almost unbelievable. And the same reductions apply on all sizes. It's your chance.

It's Beautiful Redwood

We have bought millions of feet of Redwood and never have we seen any finer silo stock -clean, clear staves that will make beautiful, lasting silos. You know that Redwood is nature's own silo material.

Every Silo a Saginaw

Every one of these silos is a bona-fide Saginaw-the same type of silo that has made good for years on thousands of farms all over the country.

This Offer Appears Only Once

Once this announcement is made, these silos are going like hot cakes and these prices hold good only so long as our supply of this wonderful Redwood lasts. If you are lucky enough to get one of these silos you must act quickly.



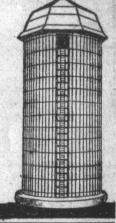
You will never have an opportunity like this again. This offer will be made only once. It's up to you to act immediately.

> Write Us Now For Particulars and Complete Price List. Address Department No. 10

Saginaw Mich. THE McCLURE COMPANY Cairo, III.

No More Than Two Silos to Each Bona-fide User

These silos positively will not be sold to speculators. Not more than two to each purchaser and he must be a bona-fide user.



Flint Maplecrest Boy no.166974

one of his SONS will raise your hard to a higher standard and better production we have them for sale at moderate prices.

A Few Females For Sale

-OUR JUNIOR HERD SIRE-Sir Ormsby Skylark Burke No. 264966 rother to the world champion cow over all

DUCHESS SKYLARK ORMSBY Michigan's best bred Ormsby bull.

Better get on the list for one of his sons out of a daughter of Flint Maplecrest Boy.

JOHN H. WINN, (Inc.) Roscommon,

A Good Note accepted in payment of finely bred reg of the best, and at prices within reach of all. Wite GEO, D. CLARKE, Vassar, Mich.

OUR HERD SIRE Model King Segis Glista

By a 30 lb, sen of Lakeside King Seris Alban De Kol. His dam Glista Fenelle 32.37 lbs. Her dam Glista Ernettine 35.56 lbs. His three nearest dams average over 38 lbs. and his forty-six nearest tested relatives average over 39 lbs. of butter in seven days. Write for prices on his sons.

Grand River Stock Farms

(State and Federal Tested)

Ypsilanti, Michigan

Offers young sires, yearlings and younger, out of choice advanced registry dams and King Korndyke Artis Vale: Own dam 34.16 lbs, butter in 7 days; average 2 nearest 20 nearest 27.83

Born July 1919. His six nearest dams have good yearly records. Amongst them are three world's records Good individual, nicely marked, and worth in any good herd all he will locat. You can't pay too much for this kind. I have a fine four months bull, not quite so well herd but a nice one.

L. E. CONNELL. Payette. Ohio

McPHERSON FARMS COMPANY

Our herds are under U.S. supervision.
McPHERSON FARMS CO., Howell, Mich May Echo Sylvia Bull calf. 2 crosses to May Echo Sylvia, and 3 crosses to King of the Pontiacs. Dam a 2 yr. old daughter of a 29 lb, cow, 6 of his nearest tested dams average 34 29 lb, of butter and 759 milk. C.H. GIDDINGS. Gobleville, Mich.

For Sale several good young registered Holstein coars. bred for fall and winter, priced \$360 each. Herd under state supervision. OARL HITCHCOCK, Charlotte, Mich.

BULL CALVES FOR SALE

From dams with good records.
BULL CALVES SIRED B 45 lb. BULL.
BULL CALVES SIRED BY 34 lb. BULL.
BULL CALVES SIRED BY 33 lb. BULL.
PRICES VERY REASONABLE.

Privelege of return if not satisfied.

A. W. COPLAND, Birmingham, Michigan Herd under State and Federal Supervision.

-WinnWood Herd- A BULLY 600D BULL CALF. CLUNY STOCK

A Semi-Offical Bred Bull to Head Your Head Maplecrest Application Pontiac No.132652, heads

Maplecrest Application Pontiac No.132652, heads

Our Herd

His dam's record is 1344.3 lbs. butter 23,421.2
lbs. milk in 365 days, and 35.103 lbs. butter and 515.6 lbs. milk in 7 days.
One of his sons from our good record dams will carry these great blood lines into Your Herd.

For Pedigrees and Prices write to

R. Bruce McPherson, Howell, Mich.

Reg. Holstein Heifers. Will offer some choice ones at calf club sele here June 25 1920. Write for catalog.

B. B. REAVEY. Akron, Mich.

The Traverse Herd

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

TRAVERSE CITY STATE HOSPITAL Traverse City, Mich.

Holsteins For Sale Ten head of registered heiters under one year old, eight head of yearlings, your pick of ten head of cows 4 to 6 yr, old out of a head of plok of ten head of cows 4 to 6 yr. old out of a herd or twenty-four All due to freshen before Oct. ist on two year old bull sired to the Flander's bull who issired by King of The Pontac's and out of one of King Segis Best daughter with an A. R. O. record of 23 71-10 Rere is a perfect bull, on acc't of labor condition with me must sell this stock come and see these cattle in stoad of writing if possible.

H. B. CLARK, Northville, Mich.

25 miles from Detroit, Electric Car every hour.

42.5 lbs. butter 715 lbs. milk in 7 days Idlease Pontiac Lass you can have her gdson for \$150 terms. His dam is damphter of Maplecrest Korn. Heng. M. L. MollAULIN, Redford, Mich.

Registered Holstein Bull Mar. 3, 1920 Dams record 20.48 lb. butter from milk as a 2 yr. old. He's a good one, I'm proud a and he is yours for 5150.

EARL PETERS, North Bradley, Mich.

Herefords. Just purchased 3 new herds, new have the purchased 3 new herds, new have either sex, horned or polled, tay age. Priced reason able. THE McOARTYS, Bad Axe. Mich



The Feed That Makes the Milk Yield



IF you have not made up your mind as to what is the best feed for large milk production, for either summer conditions or heavy feeding in winter, visit the dairy farmers in the eastern states and see what they feed. These farmers are supplying large markets with milk. Their principal production is dairy products.

Ask them what high-protein feed they are using to make up the main strength of their rations. The answer will invariably be that they are feeding Buffalo Corn Gluten Feed, and have fed it for a good many years—and, in a great many cases, their fathers fed it be-

Corn Products Refining Co.

Write to NATIONAL STARCH COMPANY, 606 Ford Bldg., Detroit, Mich.

BREEDERS' DIRECTORY

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

Wildwood Farms Angus

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

Our herd is under State and Federal Supervision.

WILDWOOD FARMS

ORION, MICHIGAN

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

WOODCOTE ANGUS

Trojan-Ericas and Blackbirds. Write for 1920 Bull sale list. WOODCOTE STOCK FARM, Ionia, Mich.

For Sale At reasonable prices. Registered Aber months of age. LANG BROS, Davison, Mich

GUERNSEY BULL CÂLVES whose 19,460,20 milk, 909.05 fat. Their mother's sire's dam made 15,109.10 milk, 708.90 fat.

T. HIOKS. Battle Creek, Mish.

Registered Guernseys

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

GUERNSEYS —REGISTERED BULL OALVES Containing blood of world champions.
HICKS' GUERNSEY FARM, Seginaw, W.S. Mich

Herd Federal inspected. Bull calf Guernseys. 7 mos. old, sired by a son of Imp. Spotwoods Sequel. Dam, a high class cow of A. R. breeding. \$150 takes him. 5 others 3 to 6 mos. old priced right. Satisfaction guaranteed. G. W. & H. G. Ray. Albion. Mich.

Guernseys Five pure bred Guernsey Bulls. Write farm, Geo. E. Currie, Mgr., 80 Alfred St., Detroit,



The Wisdom of Keeping Strictly Dairy Cows

The class of cows that should be kept for dairy purposes is well illustrated by a farm survey made by P.H.Ross, coun-ty agent of Leavenworth County, Kan-sas, in which he states; "Blood will tell." sas, in which he states; "Blood will tell." The greatest producers and the most profitable producing cows always have been and always will be of dairy breeds, bred to produce milk and butter economically. Fifty-nine farms included in this survey were dairy farms, and the comparison with other breeds in producing milk and profits, showed \$38 more return for the Holstein-Friesian per year per cow than the other breeds. per year per cow than the other breeds, and more than three times as great an income per cow as did the dual purpose

Send for the valuable Holstein booklets. They are sent free.

HE 164 Hudson Street Brattleboro Vermont.

BUTTER BOY ROSINA PRINCE 254572. Herd sire a 90 lb.cow that made 1345 lbs. in one years and Dam Butter Boy Rosina 2nd 200540 made 29 lbs.; and almost 800 lbs. in the months, she has a 33 and 34 lb, sister, Have some fine Bulls and Heifers and some heifers bred to him, all from A. R. O. Cows, with records from 22 to 30 lbs. Hampshire Hogs—Fall Boars ready for service, and gilts. Also booking orders for Spring Pigs. Belgium, Percheron Stallions and Marcs. Imported and American bred. Write or come and see us. SAGINAW VALLEY STOCK FARM.

Saginaw, W. S., Michigam
ELI SPRUNGER & SON, Proprietors.

Holsteins of Quality

Our County Farm Bureaus

Continued from page 953). owns and operates a one-hundred-and- do business through the State Farm ninety-acre farm where he is devoting Bureau as soon as both organizations special attention to breeding improved are ready to function. It was voted to seed corn. In 1909 he began his work go ahead and secure new quarters bewith some original stock developed on fore the shipping season begins. Offihis farm. All these years he has been cers of the Brooklyn Cooperative Asselecting and breeding corn with the sociation are: Dr. H. F. Palmer, presidea of developing a variety that would ident; Luther Cook, secretary; Henry mature a maximum of sound ears dur- Cash, E. B. Ambler, Emory D. Neeley, ing the normal-growing season in Daniel Fuller, Vern Wheaton, William Michigan. As a result of his painstak- Randall, E. J. Wilber, directors. Last ing labors we now have Folk's White- year the organization did \$100,000 cap Yellow Dent. It's fairly early ma- worth of business. turing and is of the dent type, which Arthur Landon, an extensive cattle gives more weight of shelled corn per and sheep feeder, of Springport, is a bushel of ears than most any other of member of the executive committee of hundred and one hundred and ten bush- man. His success as a farmer, and Mr. Folk's farm and the crop seldom qualifies him for the new position. fails to make full maturity before frost Springport farmers are deeply intercomes in the fall. Folk's reputation ested in cooperative work and the shipas a corn breeder is not confined to ping association did a business of \$200,his own county and state. In 1916 his 000 last year. The officers are: D. corn won the grand sweepstakes at the W. Peters, president; W. C. Ford, man-National Corn Show, and he has won ager; Elmer Losey, Guy Lininger, A. many other state and national cham- J. Courtright, directors.

pionships. His daughter is an enthu- M. L. Noon, president of the Jacksiastic corn breeder and exhibitor and son County Farm Bureau, owns a fine has won nearly one thousand dollars two-hundred-and-ten-acre farm southworth of prizes at the leading fairs east of Jackson. He is well known to and exhibitions. Mr. Folks breeds the farmers of the county and state. small grain seeds as well as corn. He Mr. Noon breeds registered Holstein is deserving of the thanks of his fel- cattle and Duroc Jersey swine, and is low farmers for his efforts to improve prominent in breeding and organiza-

life more attractive and the business his county and state. Jackson county from his community feel that he will selected M. L. Noon for president. prove an able member of the committee.

stock during the past year. William sand-three-hundred-acre farm a few manager; Harry Estry, Wayne Weeks, gus cattle, Shropshire sheep and pedi-

calm county.

shipping association is ready to begin dent of the County Farm Bureau the business. The officers are: Chauncey present organization can always de-Allen, president; Henry Sherman, pend upon him for sound advice and manager; Norman Carr, Luther Wat- vigorous support. son, Roy Kintigh, Glenn Folks, F. O.

ger; Fred Hadley, John Lipert

Householder, directors.

Fifteen High Grade Holstein Cows For Sale siastic meeting of the Farmers' Coop-pleted so that our seventeen hundred E. A. HARDY, Rochester, Mich. erative Association. The new by-laws members will be working along the

adopted makes it possible for them to

the dent varieties of corn grown in the County Farm Bureau. Mr. Landon Michigan, makes it especially valuable operates a two-hundred-and-forty-acre for Michigan conditions. Yields of one farm, and is a comparatively young els per acre are nothing uncommon on keen insight into farmers' problems

their crops of corn and small grains. tion work. Always ready to join in any Ed Ford represents Hanover on the movement for the betterment of the executive committee. He owns and farmer or to build up his community operates a farm and is an active sup- he has made a host of friends among porter of all movements to make farm the farmers and the business men of of farming more profitable. People made a wise choice of leaders when it

L. Whitney Watkins, of Manchester, formerly president of the Jackson The farmers at Hanover have organ- County Farm Bureau, is generally recized a shipping association and have ognized as one of the real agricultural shipped about \$50,000 worth of live leaders of Michigan. On his two thou-A. Reed is président; Fred Folks, miles from Manchester he breeds An-John Lowell, Fay Conklin, directors. greed grains. Cattle and sheep are fed Gifford Patch, of Clarkslake, a mem- for market. One of his big projects is ber of the executive committee of the commercial orcharding and he owns County Farm Bureau, owns and oper- one of the best young apple orchards ates a splendid one-hundred-acre farm in the state. Mr. Watkins has always where he grows pedigreed grains. Mr. been active in public affairs and his Patch is recognized as a practical judgment is sought by many farmers farmer and an active worker for all throughout the state. Being a memthings that go to build up the business ber of the State Board of Agriculture and make the country a better place places him in a position to render a in which to live. His son, Gifford fine service to the farmers of his coun-Patch, Jr., is county agent for Mont- ty and state. While his position on the State Board of Agriculture rendered it At Pulaski the newly organized impossible for him to serve as presi-

Butler, Don Rice, Levi Bates, directors. THE present county agent, Mr. C. In the vicinity of Concord the farmers have made rapid progress with county and graduated from M. A. C. their organization. The Concord Ele- in 1912. Mr. Ballard taught school at vator Association during the several Hudson, Michigan, and Woodbine, New months it has been doing business has Jersey, and served five years as county handled \$80,000 worth of business, agent in Dickinson county in the up-The officers and directors are: Earl per peninsula. Thoroughly familiar Wetmore, president; Clyde King, man- with both the practical and scientific Fred side of ers problems he is taking Householder, Harry Burke, Marvin hold of his new work in a manner that Woodruff, Rupert Cox, William War- is pleasing the farmers of Jackson county. While discussing his new work The Concord Shipping Association Mr. Callard said: "I want to push has shipped more than \$200,000 worth this seed work on a big scale and of live stock in the past eleven months, make it profitable as a business for Its officers are: T. N. Hubbard, pres- our farmers. I am confident that it is ident; Clyde King, manager; Marvin going to prove a highly profitable bus-Woodruff, Fred Hadley, Walter Dodes, iness as soon as the growers are in a Ed Wilcox, George West and Fred position to capitalize on their efforts along these lines. We aim to work with the State Farm Bureau in every AT Brooklyn, Mr. Ballard and the possible way. Another problem is that Circuit Rider attended an enthu- of getting our organization work com

right lines and getting direct benefits from their county and state organizations. Other projects will be given due attention, but I consider the crop improvement and organization problems the ones which demand immedi-

ate attention."

· One of the pioneer Holstein breeding farms in the state is Boardman Farms near Jackson. The farms comprise two hundred and eighty acres, which have been devoted to the maintenance of a Holstein herd since 1906. The present herd sire is King Korndyke Oriskany Pontiac, a son of the famous King Korndyke Pontiac Lass, who is now one of the herd sires at Arden Farms, and the only son of a fortyfour-pound cow having a thirty-fivepound daughter. The dam of this bull is Oriskany Keyes, who has a record of 31.33 pounds, giving the bull an average of 37.78 for his two nearest dams. The Junior herd sire is King Sadie Vale Korndyke. His sire is the great Korndyke Sadie Vale, known throughout the country as one of the greatest sires of his generotion. He is the only son of a forty-pound cow having a forty-pound sister and a forty-pound daughter. In his blood lines we find a combination of the great Sadie Vale Concordia family with that of King Segis in the closest possible degrees His dam, Nellie Veemen Pontiac, herself a thirty-pound cow, with two previous records over twenty pounds, is a daughter of Sir Korndyke Artis, fifty-eight A. R. daughters, and from the great century sire, Sir Veeman Hengerveld-a combination that has produced seven thirty-pound cows to

In looking over the females we find that nearly half of them are granddaughters of King of the Pontiacs, while there is one splendid daughter of this bull and two daughters of It, one of these being a thirty-pound cow, with a thirty-pound dam. The herd was founded by John W. Boardman, but is now owned by his two sons, John W., Jr., and Captain Harry, who have recently taken charge of the business. The brothers are pushing the business of breeding Holsteins aggressively ond devoting special attention to Duroc Jersey swine and poultry.

H. F. Probert, proprietor of Oakcroft Farm, is a member of the County Farm Bureau executive committee. For many years Mr. Probert has been very prominently identified with the Jersey interests and some of the famous animals of the breed have been bred and developed on this farm. The herd was founded in 1893, and at times has numbered one hundred and fifty head. During all these years it has been the policy of Mr. Probert to breed and sell the best of the breed. The herd has always been one of the foremost in testing. One of the resolutions of the owner has been to never allow a cow to remain in the herd unless she could show her ability to make six hundred pounds of butter in a year. unless for some special reason. A fixed Note accepted in payment of finely bred region rigid system of testing out the future GEO, D. CLARKE, Vassar, Mich. her sires has always been practiced before they were used in the herd. Among the requirements being that he must have the power to transmit large milk-producing qualities to his daughters, ten thousand pounds being the mark, at maturity. In testing the cows all tests have been made on regular feed and with regular care, and in all these years no tests have been made on any other basis. The aim being to develop a high average of useful cows on a rational system of breeding, feeding and care. For more than twentyfive years a system of line-breeding has been practiced and the selections have been governed by economical production. Oakcroft is located two and younger, out of choice advanced one-half miles from the city of Jackson. The farm consists of two hundred and fifty acres and is one of the most beautiful and thoroughly equip-(Continued to page 977).

lo Prices Smashed

Startling Reductions in Saginaw Redwood Silo Prices Made Possible by Purchase of Redwood from Government-Saves \$100 to \$300 per Silo

This is without question the biggest silo offer we have ever been able to make. This Redwood was purchased by the Government for war purposes. It was not used and due to our big purchasing power we were able to buy the whole lot at an astonishingly low price-much lower than present market prices. We are passing these savings along to you.

75 Ton Silo Only \$377

Think of it, a 73 ton Saginaw Redwood Silo for \$377.00. It is almost unbelievable.

And the same reductions apply on all sizes. It's your chance.

It's Beautiful Redwood

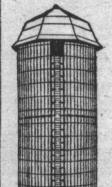
We have bought millions of feet of Redwood and never have we seen any finer silo stock -clean, clear staves that will make beautiful, lasting silos. You know that Redwood is nature's own silo material.

Every Silo a Saginaw

Every one of these silos is a bona-fide Saginaw—the same type of silo that has made good for years on thousands of farms all over the country.

This Offer Appears Only Once

Once this announcement is made, these silos are going like hot cakes and these prices hold good only so long as our supply of this wonderful Redwood lasts. If you are lucky enough to get one of these silos you must act quickly.



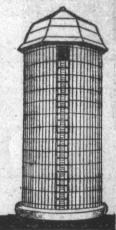
You will never have an opportunity like this again. This offer will be made only once. It's up to you to act immediately.

> Write Us Now For Particulars and Complete Price List. Address Department No. 10

Saginaw Mich. THE McCLURE COMPANY Cairo, Ill.

No More Than Two Silos to Each Bona-fide User

These silos positively will not be sold to speculators. Not more than two to each purchaser and he must be a bona-fide user.



Flint Maplecrest Boy no.166974

one of his SONS will raise your hard to a higher standard and better production we have them for sale at moderate prices.

A Few Females For Sale

OUR JUNIOR HERD SIRE-Sir Ormsby Skylark Burke No. 264966 rother to the world champion cow over

DUCHESS SKYLARK ORMSBY higan's best bred Ormsby bull. ter get on the list for one of his sons out of a ghter of Flint Maplecrest Boy.

JOHN H. WINN, (Inc.) Roscommon,

OUR HERD SIRE Model King Segis Glista

By a 30 lb. son of Lakeside King Segia Alban De Kol. His dam Glista Fenelle 32.37 lbs. Her dam Glista Ernestlne 35.56 lbs. His three mearest dams average over 33 lbs and his forty-six nearest tasted relatives average over 50 lbs. of butter in seven days. Write for prices on his sons.

Grand River Stock Farms J. Spencer, Owner Eaton Rapids. Nich.

(State and Federal Tested)

Ypsilanti, Michigan

Offers young sires, yearlings and registry dams and King Korndyke Artis Vale: Own dam 34.16 lbs. butter in 7 days; average 2 nearest ped breeding establishments in the dams 37.61, 6 nearest 33.93, 20 nearest 27.83

Born July 1919. His six nearest dams have good yearly records. Amongst them are three world's records Good individual, nicely marked, and worth in any good herd all he will cost. You can't pay too much for this kind. I have a fine four months bull, not quite so well bred but a nice one.

L. E. CONNELL. Fayette. Ohio

NOTCH HOLSTEINS

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

Our herds are under U. S. supervision, McPHERSON FARMS CO., Howell, Mich

M ay Echo Sylvia Bull calf. 2 crosses to May Echo Sylvia, and 3 crosses to King of the Pontiacs. Dam a 2 yr, old daughter of a 29 lb, cow, 6 of his nearest C. H GIDDINGS, Gobleville, Mich.

For Sale several good young registered Holstein cows bred for fall and winter, priced \$300 each. Herd under state supervision. GARL HITCHCOCK, Charlotte, Mich.

Reg Hoistein Bull calf born Dec 19,a beauty % white reg. and del. for \$100, would take Liberty Bond, J. R. HICKS, St. Johns, Mich.

BULL CALVES FOR SA

From dams with good records.
BULL CALVES SIRED B 45 lb. BULL.
BULL CALVES SIRED BY 34 lb. BULL
BULL CALVES SIRED BY 33 lb. BULL.
PRICES VERY REASONABLE.
Privelege of return if not satisfied.

A. W. COPLAND,
Birmingham,
Herd under State and Federal Supervision.

WinnWood Herd- A BULLY GOOD BULL CALF. CLUNY STOCK

A Semi-Offical Bred Bull to Head Your Head Maplecrest Application Pontiac No.132652, heads

Maplecrest Application Pontiac No.132052, neads
Our Herd
His dam's record is 1344.3 lbs. butter 23,421.2
lbs. milk in 365 days, and 35.103 lbs. butter and
515'6 lbs. milk in 7 days.
One of his sons from our good record dams will
carry these great blood lines into Your Hord.
For Padigrees and Prices write to

R. Bruce McPherson, Howell, Mich.

Reg. Holstein Heifers. Will offer some choice ones at calf club sele here June 25 1920. Write for catalog.

B. B. REAVEY. Akron, Mich.

The Traverse Herd

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

TRAVERSE CITY STATE HOSPITAL Traverse City, Mich.

Holsteins For Sale Ten head of regunder one year old, eight head of yearlings, your pick of ten head of cows 4 to 6 yr. old out of a herd of twenty-four All due to freshen before Oct. Ist one two year old builsired te the Flander's buil who issired by King of The Fontiac's and out of one of King Segis Best daughter with an A. R. O. record of 33 lbs. The dam of this buil has A. R. O. record of 25 7-100. Rere is a perfect buil, on acc't of labor condition with me music sell this stock come and see these cattle instead of writing if possible.

25 miles from Detroit, Electric Car every hour.

42.5 lbs. butter 715 lbs. milk in 7 days Idlease Pontiac Lass you can have her gdson for \$150 terms. His dam is daughter of Maplecreat Korn. Heng. M. L. MolAULIN, Redford, Mich.

Registered Holstein Bull
Born Mar. 3, 1990 Dams record 20,48 lb. butter from
424 lb. milk as a 2 yr. old. He's a good one, Tm prond
of him and he is yours for 5150.
RARL PETERS. North Bradley, Mich.

Herefords. Just purchased 3 new herds, now have either sex, horned or polled, Eny age. Priced reasonable.

THE MCCARTYS, Bad Are, Mich.

GOOD HORSE SENSE.

A N acute shortage of good draft horses now confronts the country. Farmers are realizing more and more that draft horses furnish a most efficient and economical power on the farm. The supply of good draft horses falls far short of the demand. For several years many of our farmers and breeders have neglected breeding their mares. In one township in this state a recent survey of the horse situation shows only two yearling colts and one mare to foal this spring. The young stock coming on for replacement is not here.

Very few farmers own more horses at the present time than are absolutely needed for their work. Horses of the right type for farm work are very scarce. The source of supply of good daft horses is on the average farm. Every farmer throughout the country should breed all his good brood mares this season to the best available stallion, whatever the fee may be. Each 20 Cows and Heifers of popular breedfarmer who is careful to breed his mares to a sire of the right type insures his own future supply for replacement, and a surplus for market which will bring a good profit for the raising.

Prices on draft animals have made great advances the past six months. and will continue to go up, governed by the law of supply and demand. These high prices should be an inducement to farmers to begin breeding operations at once. The market has never been better, nor the future brighter for draft horses and geldings with size and quality for farm work and city use.

The wide-awake farmers realize the situation in the draft horse world and are getting busy. They will be richly rewarded. Those who fail to see the opportunity will pay dearly for their negligence.

Dr. J. P. HUTTON, M A. C., East Lansing, Mich.

VETERINARY.

Round White Worms.—I have young horse that is troubled with stomach worms which are about the size of a lead pencil. J. R. E., Hillsdale, Mich.—Give him two ounces of turpentine in twenty curees of row (not belied) in twenty ounces of raw (not boiled) linseed oil every ten days until three doses have been given.

Sore Eyes.—I have a five-year-old gelding that caught cold. Since then his eyes discharge mucus, which is quite thick and a yellow color. E. C., Bellaire, Mich.—Dissolve forty grains of boric acid and forty grains of borate of soda in one-quarter pint of clean water and apply to eyes three times a day. Occasionally blow one part calomel and four parts boric acid into eyes.

Blood-Poison-Weakness.-I recently Blood-Poison—Weakness.—I recently had a three-year-old stallion castrated, he swelled considerable; now when down is unable to get up. Most of his weakness is in hind quarters. L. V. R., Fennville, Mich.—Give him one dram doses of fluid extract of nux vomica and twenty grains of quinine three times a day. Open wounds and allow pus to escape; swab out cavity with tincture of iodine daily. Feed him plenty of oats and mixed hay.

Sweeny I have a pine year old.

plenty of oats and mixed hay.

Sweeny.—I have a nine-year-old mare that was sweenied last winter. I blistered her three times, also had our local Vet. look at her. He said nothing could be done for her. He advised me to put her to work, but I find work makes her sore all over. She is stiff in hind quarters and when moving, cripples along. Have been applying sweet oil. W. W. H., Alma, Mich.—Apply equal parts of turpentine, aqua ammonia and raw linseed oil to sweenied parts three times a week.

Fistula on Ear.—I have a two-year-

sweenied parts three times a week. Fistula on Ear.—I have a two-year-old colt that has a hole about the size of a lead pencil on the edge of ear, which runs downward, but it refuses to heal. The discharge is thick, much like the white of an egg. Our local Vet. tells me he has never seen a case like it. What shall I apply? J. W., West Branch, Mich.—Doubtless this is a case which requires proper drainage and if you will rip it open to bottom, or tap it at bottom, might effect a cure. When opened swab out cavity with tincture of iodine occasionally.

52-Reg. Holsteins-62

First Macomb County Consignment Sale

Sale at I P. M.

Fairchild Farms, Chesterfield, Mich. (25 Miles from Detroit, on Gratiot Ave.)

11:16 A. M. Limited from Port Huron and 12:10 P. M. Limited from Detroit will Stop at the Door.
Also Hourly Local Service Both Ways.

EREFORDS

ing for sale also bulls not related.

ALLEN BROS. MICHIGAN PAW PAW,

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

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

FOR SALE Jersey Bulls ready for service R. of M. ancestors. Raleigh-St. Lambert breeding. Jerseys stand for economy. Waterman & Waterman, Packard Rd. Ann Arbor, Mich.

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

LILLIE Farmstead Jerseys—A few heifers bred to freshen soon, heifers bred to freshen next fall; cows, R. of M. bull calves. C. C. Lillie, Coopersville, Mich.

Bulls ready for service from our herd bull Marguerites Premier, gdson, of Pogis 99th of Hood Farm, and cows now on test for R. of M. Smith & Parker, Howell, Mich.

For Sale. Jersey bull ready for service sired by Fly-ling Foxe's Gay Lad. Dam record 472,5 lbs. butter 8875 lbs. milk. Notten Farm, Grass Lake, Mich.

SHORTHORNS

a bull that will put weights on your dairy calves-the difference will soon pay for the bull. Now selling good Scotch and Scotch-topped yearlings, reasonably priced. A roan, senior yearling, a Missie of Villager breeding, a herd bull prospect, Federal Test.

BIDWELL STOCK FARM, Box D, Tecumseh, Michigan

Royal Bruce 795521 heads our herd. Three half brothers sold for \$55,000.00 one Cluny Proud Augusta going to head Wm. Duthies of collyne's herd at \$21,000.00. One bull and a number of females for sale.

OARR BROS. & CO.

Norman Carr, Secretary.

Bad Axe, Mich.

Richland Stock Farms Home of the Michiean Champions. Shorthorn Sires in Service:

IMP. Lorne, IMP. Newton Champion, Sterling Supseme: Why not buy a young bull to head your herd that carries the blood that is making Shorthorn History. Only a few real headers left. Write your wants.

C. H. PRESCOTT & SONS, Tawas City, Mich.

For Sale Shorth orns of Quality Scotch and Bootch Topped descendents of Archers Hope, Avondae, Max waiton Sulton and White Hall Sulton, Model Type, by the Oscola Co. Shorthorn Breeders Ass. John Sch midt, Sec. Reed City, Mich.

Central Mich. Shorthorn Breeders Asso. offer 40 bulls, 38 females, write for new list. OSOAR SK INNER, Sec. Gowen, Mich.

Shorthorns Scotch and Scotch Topped Sultan Champion heads herd, one scotch two yr. old herd bull by Red Cumberland priced right.

H. J. FLOWER & SON. Milo, Mich.

The Kent Co. Shorthorn Assn have males and females of quality for sale.

A. E. RAAB, Sec., Caledonia, Mich.

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

Shorthorns Good Scotch bred bulls, cows and heiters priced right,
W. B. McQUILLAN, R. 7, Howell, Mich.

M EADOW Hills Shorthorns. Herd headed by Sil due University's great sire. For sale females of all ages, a few young bulls. Geo. D. Doster, Doster, Mich.

St. Joseph Valley Shorthorn Ass'n has males of all ages and best breeding.

ARON HAGENBUCH, Sectreas. Three Rivers, Mich Reg. Red Polled cattle choice young bulls from 6 to 18 FRANK KEBLER, R. 1, Grand Ledge, Mich.

For Sale One Thoroughbred Brown Swiss Bull. Nine months old.
E. H. EISELE, Manchester, Mich.

HOGS

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

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

O. I. C. SOWS FOR SALE

One of the Best Herds in Michigan

Spring gilts and fall yearlings bred for March, April and May litters. I ship
C. O. D., pay express and register in buyer's name. If you want a BIG
TYPE sow, guaranteed right in every way, write me.
J. CARL JEWETT, R. 5, Mason, Michigan.

Large Berkshires. Herd boars, bred gilts, spring pigs. Satisfaction guaranteed. W. H. EVERY, Manchester, Mich.



Phillips Bros, Riga, Mich. MICHIGANA FARM

sells Durocs Ang. 6th.
Write for catalogue.
O. F. FOSTER, Mgr.
Pavilion, Mich

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

St. Johns, Mich.

ROYAL BRED DUROC GILTS Dams sired by Michigan Cherry Col. Bred to Jacks Cherry Orion King, No. 189259. Son of the \$10,000, champ-ion, Jacks Orion King 2nd, all high class stock, write for prices. The Jennings Farms, R.1. Bailey, Mich.

DUROC JERSEYS Two sows of great breeding and choice individual weighing about 300 lbs, each due to farrow in Jun price \$85 each, first checks get them. RUSH BROS.
OAKWOOD FARM, Romeo, Mich

DUROC JERSEYS E. D. HEYDENBERK, Wayland, Mich

DUROCS: Bred Sows, fall or spring pigs anything you want. Write FRANK LAMB. Cassopolis, Mich

Duroc bred sows and gilts sired by Orion Cherry King Col. 2nd., bred to All Col. of Sangamo 2nd. First class lot, reasonable. W.C. Taylor, Milan, Mich.

Duroc Jersey fall and spring pigs for sale. We sell you only the best, ship C. O. D. subject to your approval. Register in buyers name and guarantee satisfaction W.E. BARTLEY, Alma, Michigan

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



HAVE started thousands of breede success. I can help you. I want to p months old Write for my plan- More Money from H. S. S. BENSAMIN, R. F. D. 10, Portland, Mich.

The World's Champion

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

Central Mich. O. I. C. Swine Breeders Ass'n. Hogs of all ages of popular blood lines. Every sale guaranteed by association.

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

O. I. C. & Chester White Swine Strictly big type with QUALITY. Spring pigs own ready to ship. Never had better ones. Remember I was breeding Big Type 20 years ago. They have a right to be big. Write us for prices. NEWMAN'S STOCK FARM, B. 1, Marlette, Mich.

O. I. C's. One Sept. boar. March farrowed pigs of either sex.
O. J. THOMPSON, Rockford, Mich.

O. I. C's A few choice late fall and winter boars, also a fine two year old boar. WEBER BROS., R. No. 2, Royal Oak, Mich.

O. I. C's. Big type serviceable boars. Gilts. G. P. ANDREWS, DANS VILLE, MICHIGAN

O.I.C. Gilts bred for March and April farrow, guaranteed safe with pigs. Fall pigs and a few service boars. Herd immuned by D. T. F. C. Burgess, R. 3, Mason, Mich.

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

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

O. I. C's. 5 last fall boars and 15 last fall glits bred for Also this springs pigs not akin. 2 miles west of dock. Citizens phone 124. Otto B. Schulze, Nashville, Mich.

MILLER Meadow's L. T. P. C, boars all sold. Gilts Msired by General Jones and bred to our young boar Alaska, address CLYDE WEAVER, Ceresco, Mich.

L. S. P. C.

One 400 lb. sow and 7 pigs by side, price \$100.00. One 275 lb. gilt and 6 pigs by side, price \$85.00. Two choice boars.
H. O. SWARTZ. Schoolcraft, Mich.

Big Type Poland Chinas Our herd is representative of the best in Big Type. The \$40,000.00 "The Yankee", the \$50,000.00 "The Clansman" and the priceless "Giant Buster" are all represented. We aim to keep up-to-date blood lines and only quality stuff. Come over and see us. PUBLIC SALE OCT. 25th. WESLEY HILE, R. 6, Ionia, Mich.

Bred Sow Sale at Fairgrounds
August 5th. Carey U. Edmonds, Hastings, Mich.

B. T. P. C. Spring pigs of both sex. Sired better. JOHN D. WILEY, Schoolcraft, Mich.

BOARS! Oh Boys!

Sons and grandsons of the Mighty Giant Buster. The big boned useful kind. Priced for a quick sale. JNO. C. BUTLER, Bell Phone, Portland, Mich.

Big Bob Mastodon pigs takes the cake, book you order now. Fall bears and gilts sired by a grandso of Disher Giant, open or bred to Big Bob for Sept. 2 yearling sons. O. E. GARNANT, Eaton Rapids, Micl

Big Type Poland Chinas with quality, at re-of both sex, and bred sows and gilts. G. A. BAUMGARDNER, R.2, Middleville, Mich

Big Type Polands all sold out. Watch this ad for further announcements, Breeding stock for sale in season. L. L. CHAMBERLAIN, Marcellus Mich.

L EONARD'S B. T. P. C. bred sows all sold. Order booked for bo ar pigs at weaning time from Mich Champion Herd. E. R. Leonard, R. 3, St. Louis, Mich

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

"Lindhurst" Poland Chinas Mammoth Ben's Chief No. 352167 heads our herd. Sows by Mammoth Ben, Upsome Lad, Joe Mastodon, Gertsdale Jones, and Capt. Frice. Pigs by Mammoth Ban's Chief, Mountain Jack, and Orange Model. For sale fail boars and gilts sired by a son of Bower's Mam-moth Joe. A few herd sows priced to sell. Get in line for spring boars for spring boars. WM. H. LIND, Citz. Phone, Alto, Mich,

6 th ANNUAL P. C. Bred Sow Sale March 13, 1920, For particulars write Augusta, Mich.

LARGE TYPE P.C. SWINE. One yearling boar, fall pigs, a few more bred sows. R. W. Mills, Saline, Mich.

Poland China Brood Sows Bred for May and Maplewood Stock Farm, Allegan, Mich.

IMPRESSED WITH AGRICULTURE'S NEED.

(Continued from page 974).

can help in this crisis by speeding up production and working longer hours Relatively few city employes are fitted for immediate farm work but each can work a little harder and a little longer at his present job and thereby release others who can help with food production. We feel that if the average factory employe or other workman appreciated the gravity of the situation he would voluntarily increase his day's work from eight to ten hours until the emergency has passed and food production in sufficient quantity is assured.

"Wherever such action will result in increased crop production, all public improvements, federal, state, county and municipal, should be reduced to a minimum or discontinued during the present growing and harvesting season in order that the laborers employed may be released to help produce food for themselves and their neighbors. All the necessary government machinery should be invoked to assemble and allocate such labor as may be available or recruited in advance of the harvesting seasons. Sufficient bank credits should be made available to relieve the present severe strain experienced in financing farm operations and in purchasing machinery, fertilizers and other labor-saving equipment and supplies. All these would tend to relieve the situation temporarily and save us from what now seems inevitable food shortage. The permanent solution must, of course, eventually come through a readjustment of soil fertility policies, food prices and wages, which will enable the farmer to pay a wage that will more nearly compete with scales prevailing in the cities. We, the representatives of organized agriculture, most respectfully urge that you give this entire matter your earnest consideration and speedily apply such remedial measures as this critical situation warrants."

Farmers who come to Washington from all parts of the country are pleased with the decision of the supreme court in favor of constitutional prohibition and the Volstead enforcement act, and removing all uncertainty as regards the legal status of prohibition. There may be some sentiment in opposition to prohibition and its rigid enforcement in the cities, but it is evident from the opinions of farmers who visit the nation's capital that no such sentiment is to be found in the open country.

E. E. REYNOLDS.

MICHIGAN FEEDER BUYS STOCK-

CHARLES WOLOHAN, big farmer and feeder in Saginaw county, Michigan, has confidence in the future of the beef market, provided the feeder buys the right kind of cattle and feeds the right kind of feed. The farmer who roughs his cattle through as cheaply as possible and finishes them on silage will make a profit, he be-

Wolohan has a one-thousand-acre farm, about half of which is pasture land. He expects to run two hundred head of young cattle on this tract this summer, rough them through next winter, turn them on the grass again next summer, and then finish them on silage if corn values are still out of line with the cattle market. His buyer, Ben Hobson, purchased a load of yearling Herefords recently to help eat the pasture on the Wolohan farm. Wolohan believes in feeding light steers.

Unfavorable crop news has bolstered up grain prices and encouraged those having supplies to hold on.

Where Butter Profits are Made or Lost

YOU know better than we can tell you that the bowl of the separator is the place where butter profits are made or lost. Right there you have the big fundamental reason why over a million dollars were spent in bringing the bowl of the EMPIRE-BALTIC to its present state of perfection. Years of constant study and experiment on the part of the world's foremost centrifugal engineers stand back of the EMPIRE-BALTIC—the Separator with the Million Dollar Bowl.

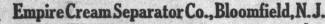
And here's what we have accomplished: Abowl that is absolutely self-centering and self-balancing
—a bowl that is free from vibration. We have solved the problem of self-centering and self-balancing by the unique method in which the bowl rests on the flange of the spindle instead of on top of it-it adjusts itself.

Vibration unfailingly shakes the cream back into the milk after it has been separated. Possibly you thought that a bowl free from vibration could not be manufactured. But we have accomplished it, in the EMPIRE-BALTIC—the Separator with the Million Dollar Bowl.

Many other exclusive features make the EMPIRE-BALTIC stand out as an abovethe ordinary separator. For instance, the rope neck-bearing absorbs all shocks and wear and tear—the ratchet coupling avoids the "jerk in turning"—the great simplicity of the driving

arrangement means easier turning and smoother runningthe oiling system is as simple as it is efficient, and so on. Your experience enables you to judge separators as accu-

rately as you can judge cows. Knowing this, we ask you to call on the nearest EMPIRE-BALTIC dealer. And get the complete story of the Separator with the Million Dollar Bowl by writing for our literature 105-S



Manufacturers of Empire

Chicago, Syracuse. San Francisco and





arth-Krause

The Only Shoe with a Mileage Guarantee

Hirth - Krause Shoes are made to give what a shoe for 'the man who works' should give; service, miles of wear and more comfort. Made from the best of

leather, scientifically treated in a great Hirth-Krause tannery to make it water and acid resisting.

For the man works this is the shoe, looks like an aristocrat and wears like iron.

Sold everywhere by

Grand Rapids.

Waxlined Paper Berry Baskets

Neat, clean, and inexpensive. Can make immediate shipment at present time. Prices as follows:

200 Postpaid \$1.80 By express not prepaid \$1.60
600 "5.10" "5" 6.75
1000 "7.75" "5" 6.75
Postpaid rates on Baskets apply to points within 150 miles of Lansing Send your order in at once.

LANSING, MICH. Box 525, M. H. HUNT & SON,

CORN HARVESTER One man, one berse one row.

Binder, Sold direct to Farmers for 23 yrs, Only 25 with fodder bloder. Free Cathlog showing pictures

BUY FENCE POSTS direct from est. Prices de ered your station. M. M. care of Michigan Fai

Wanf a Sheep? Let American Hampshire Sheep booklet with list of breeders. Write COMFORT A. TYLER, 22 Woodland Ave., Detroit, Mich.

HORSES



aling cuts and sores. Excellent to protect 10 c poultry houses, Send \$1.50 for enough Shoo-Fly to protect 10 c Send \$1.50 for enough Shoo-Fly to protect 10 c Send \$1.50 for enough Shoot SHOO-FLY MFG. CO., 1334 N.10th St., Phila

DICKEY GLAZED TILE SILOS

"The Fruit Jar of the Field" Insure Your Corn Crop Against Drouths and Frosts with a Dickey Sito. Send for catalog No. 9.

W. S. DICKEY CLAY MFG. CO., MACOMB, ILL. ity, Mo. Chattanoga, Tenn.

Kansas City, Mo.

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 your Hennery Whites—We remit same day shipments arrive. Ship Often—Ship by Express

GEO. R. ELDRIDGE CO.
494-18th Street, Detroit, Mich.
ser! We guarantee you satisfaction with every ship

For Best Net Results Ship to

CULOTTA & JULL Detroit, Mich.

"Enough Said!"

Use Swift-HAY Service

AT CHICAGO
You can BUY all types of FEEDING
HAY from and SHIP your surplus to

Swift-HAYnes Co.,

EED BEANS

Salvage Cuil Beans \$40.00 ton. Regular Cuil Beans \$50.00 ton. ks included, delivered Mich., Ohio, Ind., Ill., Eastern and New England points. For hogs, sheep, cattle and poultry. The greatest feed value in U.S. A.

Port Huron Storage & Bean Co. Port Huron, Mich.

We have a good demand for fancy fresh eggs and will pay you liberal 'premiums above the market for Express shipments fresh laid shipped direct to us by farmers.

AMERICAN BUTTER & OHEESE COMPANY, Detroit, Mich.

Holmes, Stuwe Co., 445 Riopelle St. Commission Merchants. Dressed Beef, Hogs, calves. Poultry, Live & Dressed, Provisions, etc. Correspon-cible Bolicited, Ref. Wayne County & Home Savings Bank, Bradstreet.

HAY Ship to The Old Reliable House Daniel Mc Caff ey's Sons, 623-625 Wabash Bldg., Pittsburg, Pa.

HOGS

Large Type Poland Chinas nothing for sale at present. Spring pigs doing fine.

A. A. FELDKAMP, R. 2, Manchester, Mich.

FOR SALE Registered Big type Poland row, weighing 225 lbs. for \$60, spring pigs all sold, guarantee satisfaction. DORUS HOVER, Akron, Mich.

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

Spring boar pigs, sired by Steuben's Perfection and Charokee Jim. Ist prize Ind. State Fair Other winners at other fairs. Tried sows bred. Satisfaction guaranteed. Will ship C. O. D. Address.

STEUBEN'S HAMPSHIRE FARM

Hampshire bred gilts now ready to ship and spring and fall pigs from new blood lines.

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

SHEEP.

KIDS

I cannot sell you any more ewes until next fall. To more grown up. I can ofter 10 very good young Shrop shire ewes that will lamb in April for \$400.00. Their lambs contracted to me should not more than purchase price next fall. Also 10 mighty nice ewe lamb for \$350.00. Come and see them.

S. L. WING, ROPE-KON FARMS, Coldwater, Mich.

Percheron Stallions and mares at reasonable prices; inspection invited.

F. L. KING & SON.

Stallions and mares at reasonable prices; inspection invited. Ohartlotte, Mich. Clayton, Mich. R. 3.



FIRST EDITION.

The market reports in this edition were revised and corrected on Tuesday afternoon, June 22.

WHEAT

New wheat to arrive is being offered freely in Chicago and Minneapolis where a brisk demand is reported. The winter wheat crop shows considerable improvement for the month of May, although the forecast for June 1 is over 50,000,000 short of the five-year average from 1914-1918. The recent cool weather has favored the crop. The visible supply shows a decrease of 3-294,000 bushels during the past week. The flour market is steady and the demand for feed is active. Detroit quotations are as follows:

The shipment of new potatoes from the south is increasing rapidly in volume, and markets are generally a little weaker. At Detroit No. 1 Irish cobblers are sold at \$12 per barrel and No. 2's at \$9. A few old potatoes are still being received in Chicago and are selling at \$5@5.50 per cwt.

BUTTER

With the demand from all classes of the trade for all grades of butter, prices are being maintained on a higher basis this week. In Detroit extra creamery is now ranging from 53@ 54½c, and creamery prints at 53½a@56c for creamery stock. New York business is firm at 53@59½c, and western creamery extra commands 59c

No.	1	red	750					N		٠			\$3.00	
No.	1	mi	xe	d.									2.98	
No.	1	wh	ite		3	ĕ						ķ	2.98	
No.	2	red	l		8			-				ğ	2.97	
No.	3	red	١				٠						2.94	

Cash No. 3	\$1.95
No. 3 yellow	2.00
No. 4 yellow	1.95
No. 5 yellow	1.91
No. 6 yellow	1.88

OATS

This grain rules firm with a good local demand. Favorable crop reports from various sections has somewhat tempered the bullish tone of the trade. considerable damage, however, has been done in the Ohio valley. While the estimated crop for this year is about 100,000,000 bushels short of the five-year average from 1914-1918, it is considerably larger than last year's small crop. Quotations at Detroit are:

Cas	h	No. 2	W	7]	ni	te	6						0	\$1.26	
No.	3	white					ij.			35	ě	6		1.27	
No.	4	white		*				9	Š	ŀ		ě		1.26	

RYE

The forecast for this crop places it nearly 10,000,000 bushels less than last year's bumper crop. There is little activity and cash No. 1 is quoted locally at \$2.25 per bushel.

BEANS

A further reduction is noted in local bean values, notwithstanding the fact that elevators throughout Michigan rethat elevators throughout Michigan report lower stocks than are usually held in the elevators at this season. A fairly liberal acreage is being planted by Michigan farmers. At Chicago the trade is quiet, with the supply limited. Choice to fancy hand-picked pea beans are quoted there at \$8@8.50, and red kidneys at \$15@15.50. Immediate and prompt shipment are held at \$7.25 at Detroit. In New York domestic white beans are almost at a standstill but holders are not offering concessions in order to influence sales. Choice pea beans are quoted there at \$8@8.25.

FEEDS

Trade is steady to firm, being supported by a good demand. Quotations are: Bran \$58@59; standard middlings \$59@60; fine midlings \$60@62; coarse corn meal \$75@77; cracked corn \$85@86; chopped feed \$76@77 per ton in 100-pound sacks.

Hogs.

Estimated receipts today.

SEEDS

Seeds are firm at a slightly higher price, although there is little activity in the market. Local quotations are: Prime red clover, October and alsike \$26; timothy \$5.70.

This product is not being offered freely enough to care for the strong demand, and prices remain high Local quotations are: No. 1 timothy at \$37.50@38; standard and light mixed \$36.50@37; No. 2 timothy and No. 1 clover \$35.50@36; wheat, oat and rye straw \$12.50@13.

POTATOES

BUTTER

BUTTER

With the demand from all classes of is the trade for all grades of butter, pricar es are being maintained on a higher basis this week. In Detroit extra creamery is now ranging from 53@ t. 54½c, and creamery prints at 53½@ turkeys 38@40c per pound.

WOOL

It seems now most fortunate that the wool producers throughout the central that wool producers throughout the central that the characteristics and place in Philadelphia.

CHEESE

The conditions of the poultry deal and while receipts are sufficient, they are being tolerably well cleaned up from day to day. Broilers are quoted here at 55@60c; hens 32@ is small hens 30@31c; roosters 19@ conditions are sufficient, they are being tolerably well cleaned up from day to day. Broilers are quoted here at 55@60c; hens 32@ it turkeys 38@40c per pound.

WOOL

It seems now most fortunate that the wool producers throughout the central that the wool and place the poultry deal and while receipts are sufficient, they are being tolerably well cleaned up from day to day. Broilers are quoted here at 55@60c; hens 32@ it turkeys 38@40c per pound.

WOOL

It seems now most fortunate that the wool producers throughout the central that the wool and place the poultry deal and while receipts are sufficient, they are being tolerably well cleaned up from day to day. Broilers are quoted here at 55@60c; hens 32@ it turkeys 38@40c per pound.

WOOL

State of the poultry deal and while receipts are sufficient, they are being tolerably well cleaned up from day to day. Broilers are quoted here at 55@60c; hens 32@ it turkeys 38@40c per pound.

WOOL

State of the poultry deal and while receipts are sufficient, they are being tolerably well cleaned up from day to day. Broilers are quoted here at 55@60c; hens 32@ it turkeys 38@40c per pound.

WOOL

State of the poultry deal and while receipts are sufficient, they are being tolerably well cleaned up from day to day. Broilers are quoted here at 55@60c; hens 32@ it turkeys 38@40c per pound.

42c. The New York trade is a little irregular and fresh gathered extra firsts are bringing 45@47½c, and storage packed extras 47@48c. Philadelphia's trade rules firm with western extra firsts at 48c.

creamery is now ranging from 53@
54½c, and creamery prints at 53½a
56c. The spread in Chicago is from
43@56c for creamery stock. New York
business is firm at 53@59½c, and
western creamery extra commands 59c
in Philadelphia.

CHEESE

The conditions of this market are
little changed. Production is holding
up fairly well and the outlet is good.
At Chicago Cheddars are quoted at
24¾@25c, and Young Americas at 26
@26½c. On the local market Michigan flats bring 25½@26c, and single
daises 26½c. The New York market
is firm with whole milk flats, current
make at 25½@63¼c. In Philadelphia
prices range from 23@27c.

EGGS

The quality of current receipts is
now becoming more irregular and the
spread in quotations for the different
grades is widening. At Chicago firsts
are quoted at 37½@49¼c; ordinary
firsts 33@34c; at mark, cases included
35@37c; storage packed extras 41½c.
No. 1 fresh is quoted in Detroit at
41½c and storage packed extras at
compared to 70c a year ago.

GRAND RAPIDS

There was a further decline in the paying price of wheat by millers last week, of five cents per bushel. The price now is \$2.75 for No. 1 red and \$2.73 for No. 1 white. The wholesale market price for dressed cattle, calves and sheep is higher, but hogs are a little lower. Prices are: Cattle \$14.0 21; calves \$14.0 18; sheep \$20.0 22; hogs \$17.50.0 18. The egg market is a little higher this week at 36.0 37c bid. Receipts are light. The hot-house lettuce season closed this week. Total crop marketed by the growers' association was one million pounds. The rainstorm Tuesday and Wednesday saved the strawberry crop. Growers state that two more days of weather in 90 degrees and above which had prevailed for a week, would have "cooked" the crop. Price, wholesale, now is \$3.50 per 16-quart crate. A few old potatoes have been marketed this week. Farmers are getting \$5.05.25 per bushel. First picking of green peas sold for \$6 per bushel on Tuesday. Wireworms are working badly in corn in some sections.

NEW YORK PRODUCE MARKET.

Butter.—Receipts of butter during the week have been disappointingly small as compared to those for this small as compared to those for this time in previous years. Receipts for the same week last year were practically 92,000 packages, while those for this week were fully 25,000 short of that. It is very apparent that production is much lower than in previous years. Speculators are not operating freely because of high prices and also because banks are curtailing their advances on butter in storage. Some also because banks are curtailing their advances on butter in storage. Some butter is arriving from Holland and Denmark but the quantity is not large enough to affect the market in any way. Much of the imported butter is showing mold. There has been a continued upward tendency to the market, prices having advanced three cents since Monday. Established quotations are: Extras 57½ @58c; higher scoring than extras 58½ @59c; firsts (90-91 score) 55½ @56¾ c; firsts (88@89 score) 53@55c; seconds 48@52c per pound.

(88@89 score) 53@55c; seconds 48@52c per pound.

Eggs.—Egg receipts continue to be above normal for the season. The market can not be said to be very satisfactory. There is a great variation in prices paid for eggs according to quality which causes the range of values to appear wide. The following quotations are merely relative: Firsts 42@44c; extra firsts 45@47½c; extras at 48½@49c.

Poultry.—The poultry market has

48½@49c.
Poultry.—The poultry market has held steady to firm throughout the week. Arrivals have been variable, which has caused some fluctuation in prices. However, there has been no downward tendency to prices at any time. Quotations at the close on Friday were: Fowls 38@39c; broilers 65@68c; old roosters 18@20c; turkeys 35c. Shortage in other grades.

Live Stock Market Service

DETROIT

Cattle.

Receipts 881. Dry-fed str	ong;	grass
ers dull, canners 50c lower.	力用原理	
Best heavy steers\$	14.50@	014.7
Best handy wt bu steers		
Mixed steers and heifers'	11.00@	012.0
Handy light butchers	10.00@	010.2
Light butchers	9.000	0 9.5
Best cows	8.50@	0 9.0
Butcher cows	7.50@	0 8.0
Cutters	5.500	0 5.7
Canners	5.000	0 5.2
Best heavy bulls	8.75(9.0
Bologna bulls	7.75	0 8.0
Stock bulls	7.00	@7.5
Feeders	9.00@	010.2
Stockers	8.00@	0 8.7
Milkers and springers\$	850	0 12
Vest Coluen		2000年

Veal Calves.
Receipts 578. Market strong to a dollar higher.

Sheep and Lambs.	
Receipts 172. Market steady.	
Best lambs\$	17.00
Fair lambs 13.00@	14.00
Light to common 10.00@	
Yearlings 13.00@	
Fair to good sheep 4.00@	
Culls 2.00@	3.00

Hogs.

Estimated receipts today are 60,000; holdover 14,983. Market active and 10 @25c lower than Saturday. Bulk of sales \$14.30@15.60; tops \$15.70; heavy 250 lbs up medium, good and choice \$14.40@15.50; medium 200 to 250 lbs medium, good and choice \$15.00; light 150 to 200 lbs common, medium, good and choice \$15@15.70; light lights 130 to 150 lbs common, medium, good and choice \$15@15.70; light lights 130 to 150 lbs common, medium, good and choice at \$13.80@15.40; heavy packing sows 250 lbs up smooth at \$13.35@14.30; packing sows 200 lbs up rough \$12.75@13.40; pigs 130 lbs down medium, good and choice \$11.75@14.25.

Cattle.

Best steer she stock and bulls steady; other grades and calves 25@40c lower. Beef steers, medium and heavy weight 1100 lbs up choice and prime \$15.75@17; do medium and good at \$12.90@15.75; do common at \$11@12.90; light weight 1100 lbs down, good and choice \$14.75@16.40; do common and medium \$10.85@14.75; butcher cattle, heifers, common, medium, good and choice at \$7.25@12.25; bulls, bologna and choice \$7.25@12.15; canners and cutters, cows and heifers \$4.25@7; do canner steers \$5.75@8; veal calves light and handyweight medium, good and choice \$13@14.75; feeder steers, common, medium, good and choice \$13@14.75; feeder steers, common, medium, good and choice \$7.50@11.50; stocker calves, common, medium, good and choice at \$6.25@8.50; stocker calves, common, medium, good and choice at \$6.25@8.50; stocker calves, common, medium, good and choice at \$6.25@8.50; stocker calves, common, medium, good and choice at \$6.25@8.50; stocker calves, common, medium, good and choice \$7.50@10.75 stocker calves, common, medium, good and choice at \$6.25@8.50; stocker calves, common, medium, good\$15.00@15.50 and choice \$7.50@10.75.

Sheep and Lambs.

Sheep and Lambs.

Estimated receipts today are 15,000.

Market slow and steady. Lambs 84 lbs down, medium, good, choice and prime \$13@17; do culls and common \$10@13; spring lambs, medium, good, choice and prime \$10.50@14.50; ewes, medium, good and choice \$5@7.50; do cull and common \$3@5; yearling wethers, medium, good and choice \$9@14.

Receipts 10,400; strong to 50c higher; heavy \$16.25@16.50; mixed \$16.50; yorkers \$16.50@16.60; light yorkers at \$15.50@16.50; pigs \$15.50; roughs at \$12.75@13; stags \$8@10.

30 lbs down medium, good and choice Receipts 2,800; slow; 50c@\$1 lower; lambs \$12@17.50; yearlings \$8@15; Wethers \$8.50@9; ewes \$3@8; mixed Estimated receipts today are 20,000. sheep \$8@8.50.

NEWS OF THE WEEK.

(Continued from page 950). are leaving for the national convention in San Francisco which opens June 28. Monday, June 21.

Cattle.

Receipts 4,500; dry-fed 15@25c higher, grass are 25@50c lower; shipping steers \$15.50@17.50; butchers at \$12.0@15.50; yearlings \$15.00; tower; shipping steers \$15.50; yearlings \$15.00; butchers at \$12.0@15.50; yearlings \$15.00; fresh cows and springers \$65.0015.50.

Veal Calves.

Receipts 10,400; strong to 50c higher; heavy \$16.25.0016.50; mixed \$16.50.

Receipts 10,400; strong to 50c higher; heavy \$16.25.0016.50; mixed \$16.50.

COMING LIVE STOCK SALES.

Holstein—June 30, Macomb County Consignment, Fairchild Farms, Ches-terfield, Mich. Poland-Chinas, Oct. 26, Wesley Hile,

Jonia, Big Type Poland-China Sale Circuit in Central Michigan, October 26-30.

SCARCITY OF COLTS.

tremely scarce in many farming mittee. districts where they used to be numerous. There are many complaints from farm of W. W. Wyckoff where we farmers that the greatly enhanced prices of farm lands make breeding and typy Holsteins in Michigan. All horses a poor investment, and this is of these cows and heifers are descenddoubtless true so far as the ordinary ants of that grand old matron, Inez kinds are concerned, but it is untrue Pieterje. Mr. Wyckoff has a fine farm if applied to high-class draft horses, which always sell at high prices. One business of breeding high-class Holfarming district, that around Manteno, stein cattle. W. W. is one of the live Illinois, which was in former times wires of the Holstein business in noted as a great horse-raising center, Michigan, and few young men have has wholly ceased to be so, and the farmers are bringing in horses from own merits. western points. Quite recently car-On account of the high prices paid for are: L. G. Palmer, president; A. G. have engaged in breeding and raising Vern Parks, directors. mules for the market, and this largely industry.

THE BOOM IN CATTLE.

ed everywhere over the boom in Luce, directors cattle prices in the Chicago market, The Rives Shipping Association, discount from prices paid readily for a fair volume of business, exact figures prime heavy steers. On a recent day, were not available. for instance, prime 1,083-pound yearlings went at \$17, while the same day there were sales of some prime 1,400pound steers at \$17.25, and a threeload bunch which averaged 1,347 further pronounced weakness in both pounds went for \$17.10 to a New York packer and country hides. It is impounds went for \$17.10 to a New York buyer. Fat heifers have been selling at \$15 to \$15.25, but very few are offered. Cattle are now selling at much higher prices than a year ago, but the best steers are seventy-five cents lower than two years ago. Cattle supplies are falling off in volume, and prospects for owners are bright. Stockers and of wool, and they are now combining feeders have shared in the advance in values, and killers are taking the best.

Packer and country hides. It is impossible to get tanners interested in hides at any price, and calf skins are really unsalable, while severe declines have taken place in horse and other hides. The wool market is described as demoralized, and there is a lack of demand for sheep and lamb pelts.

Iowa stockmen have been forming of wool, and they are now combining to have the wool sold on grade direct at the mills.

It is stated that representatives of values, and killers are taking the best steers of the feeder class.

COUNTY FARM BUREAUS.

and fight for a square deal should | make his services especially valuable VOUNG horses are becoming ex as a member of the executive com-

Over at Napoleon we visited the found about thirty of the most uniform and is well equipped to carry on the developed better herds purely on their

At Napoleon the farmers have a shiploads of horses were shipped in, and ping association which handled a \$60,although they were not especially good 000 business for the year ending Febthey sold readily for around \$200 each. ruary 1. The officers and directors good draft mules, numerous farmers Moeckel, manager; Edward Cook and

Over at Munith the Shipping Assoaccounts for the decline in the horse ciation handled \$35,000 worth of live stock last year. The officers and directors are: L. G. Palmer, president; M. F. Smith, manager; N. J. Nichols, F. M. Andrews, Lowell Peters, L. K. W ONDERMENT has been express- Andrews, Harvey Wilcox and Emmet

the advances covering several weeks. with Walter Eckerson, president; W. Unlike the experience of earlier weeks, F. Wood, manager; C. A. True, Claire yearling steers have had to go at a Darling, Arthur Perrine, directors, did

LIVE STOCK NEWS.

Dealers in hides and wool report

It is stated that representatives of forty Indiana counties have refused bids for their clips of wool and arrang-ed to ship to the National Wool Ware-COUNTY FARM BUREAUS.

(Continued from page 973).

country. Mr. Probert's experience as a moulder of animal form, his keen insight into agricultural and business problems, and his ability to stand up parts of the state.

ROSS SIL

Immediate Shipment **GUARANTEED** on Orders Placed Now-for Either CHAMPION Creosoted Wood or IN-DE-STR-UCT-O GALVANIZED Silos!

Mail the Coupon Today

THE backward season and planting this year mean that millions of acres of corn will be frosted before maturity! A sile, erected in time may mean the difference between profit and loss for you. And with the freight situation what it is today, sile shipped late will be almost certain to arrive too late for use!

We have a limited stock of the famous Champion and In-De-Struct-O Galvanized Metal Silos on hand for immediate shipment. We guarantee to ship prompt-ly on orders placed within the next 30 days.

Mail this coupon at once for Cata-log and full details. Find out why the Champion is the best silo invest-ment you can make—this year or any year! And then place your or-

der with full assurance that ship-ment will be made as promised. We guarantee immediate shipment— as long as our limited supply lasts.

Silos For Lifetime Service-And No Advance In Prices

The Champion Silo is known throughout America as the time-proof silo! Rot-proof, non-swelling creosote-oil filled staves, planted into a concrete foundation four feet deep: an anchoring system of cables that holds the entire silo as solid as the earth itself and prevents creeping, twisting or blowing over—that's the champion.

Mail Coupon Or Write Today.

Get our catalog and full details of delivery guarantee immediately. Act quickly—if you want a silo of the highest possible quality—in time to to save your corn crop this year. No obligation. The facts are yours for the asking, BUT WRITE—OR MAIL THE COUPON—RIGHT NOW.

THE E. W. ROSS CO., SPRINGFIELD, O.

THE E. W. ROSS CO., 220 Warder St. Springfield, O.

Gentlemen:— Without obligation, send full details of your special proposition on Creosoted Wood Silos.

Address

One Man Saws 25 Cords a Day



\$13.70 per cwt. 50 lbs. Bales 500 ft.to lb.insect Proof. 7-8 Pure Manila Hay Rope 7c lb. Quick Shipment. Satisfaction Guaranteed.

A. H. FOSTER CO.

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

INDEX To Vol. CLIV.

From January 1, 1920 to July 1, 1920

Editorial.
Advertising Michigan beans
A last chance for sugar beets
Beneficial effects of cooperation530
Building up soil fertility. 226 Buying dairy feeds 34 Canners lack supplies 798
Car shortage and grain
Cattle and beef prices798 Caution to wool growers450 Children—Live Stock—Dol-
lars
Dairy prices and products.766 Detroit market milk prices
milk situation
Financing organized farmers
Honey in good demand 2

referendum894 Potato outlook798798 Printing your paper694
Prophetic of the future...490
Railroad switchmens' strike Reading in the home ... 74
Registered dairy cattle pay Representing the farmers .114
Seed time and harvest . . .726
Side lights on the fuel sit-

Inside news from Wash-National agricultural af-

Canning crops higher....365
Certified seed626
Change of time protested.622
Corn borer, embargoagainst356
in nursery stock13
spreading 86 Farm crops, better191 Why your paper is late...662
Who I market situation...926
Farm, Commerce, and GenWeather handicap, the...926
population decreases ...858
Farmers' automobile trip. 768
Fertilizer adaptation ...347
Getting out of the mud...510
Glad we tried it.....548

Keep fertility at the top	Cooperation in Michigan859 Cost plus basis for farm		Income tax	Trespass along streams885
Labor shortage, meeting	production	Sugar beet growers' organ-	Joint tenancy643 Land contract44, 362, 672	chickens
Leading crops of Michi-	their work: Allegan 800: Washtenaw 832;	Tomato growers want \$25 per ton464	Lawful age for veal 5 Leached ashes	stock
Light soils, production on.153 systems of farming927	897: Livingston929	Vegetable growers aid in fighting corn borer494	Leg weakness in pullets363 Liability for lost property,480	Tuberculosis
for better agriculture 73 most profitable form400	Elevators to form exchange	What are farmers' needs? 88	Liability of express company 41	Unsatisfactory results with
Manure spreaders, value of	Farm associations elect	wool492	notes	Vendor's liability for taxes
Maple sugar and syrup in- dustry345	Farm Bureau activities, 287, 898	Service. Abortion resulting from an	Lime for grapes242 forms of362, 539	Ventilating poultry houses.257 Wall for barn 869
Michigan's creed, who will	American federation, ex- ecutive meeting894	injury414 Adverse possession672	Where to buy362 Line fence, 44, 287, 776, 870	Warranty, breach of672
write it?	and crop improvement	Alfalfa, seeding544 with barley505	Locust seed, when to har-	Weak ducklings932 Wheat turns yellow466
place in agriculture533 Money from pickles 27 Motor trucks, paving the	association cooperate859 aids beet growers454 asks protection against	wheat		
way for	hog cholera628	Asparagus bed, treatment for	Manure	White bunches on liver, 288,
News letter from M. A. C.	elevators454, 583 calls of cherry growers728	Attorney's fees373 Baby chicks, raising673 Balanced ration for cows,	Mating Barred Rocks673	
584, 641, 691, 742, 774 891.	grows rapidly156, 802 Howard's address at M.	with silage and bean	More proteins needed304	
Oats and peas for silage758 Pastures and production588	A. C	pods		
Potato crop, management of	Indiana, to reduce ship-	Best time to apply lime. 442 Blacklegs on Barred Rocks 89	Muck land, buying438 seeding905 Necessity of grain with	culosis from hens?788 Wood ashes as top-dress- ing636
seed treatment831, 882 Potatoes, black heart of483	in Iowa	Blemished bean seeds unfit for planting792	Not enough protein 46	Workmen's compensation
Production vs. marketing. 155	Michigan State holds an-	Brown specks in potatoes 482	Notice against hunting 236 to fence viewers904	Veterinary.
Proposes board to draft farm policy860	nual meeting 225 National, formed311, 394	Bugs ruin asters869 Calf meal for pigs904 Catalpa trees for posts672	One crop rotation of corn. 738	
Public auction sale670 Refrigeration inadequate82 Roads, good88	tion of190	Chattle mortgage on grow- ing crop500	sandy land	Barren cow
Rural credit bill666 Rural schools, a campaign	plans for fighting insects	Claims against estate776 Clearing land462	Overdue mortgage532	Bone spavin657, 795
for better	proposes farmer-owned	Colony brooder house242	Pin-head oats734 Planting corn, distance for	Bruised leg525
considered by educators.863 educational readjustment	Sugar beet refineries898 Oakland County 38, 277, 310		Poisoning664	Bunch in teat
national program for533	relations of local to state	Condemn schoolhouses, etc	Potassium permanganate	Chronic cottoms761
shall we consolidate64 shortage of teachers53 teachers and leadership.85	resolutions of Calhoun	Congestion of the lungs870 Controlling the moult361	Potato blight882	
Sand, mixing brains with 33 Sandy land farmer succeeds	southern Michigan solid for461	Cooked beans for hogs, 101, 540.	ing809	garget
Seeds advance26	Illinois	Corn silage for ewes 267 smut	stone	Scratch
production and distribu-	seed department768 for Eaton county898	Covenant against encum- brances	Provision storage contract.870 Ration, a good325	Cough
quality of		Cow stable, arrangement	Ration for dairy cattle and	fails to come in heat, 183,
Silo, the, and farm management146 Small grain crops, outlook	traffic department, 310, 580, 860.	for muck land43, 84		Cribbing
for49: Soil fertility, maintenance		custom carding and weav-	too bulky289	Dog has worms
of		Cutworms, destroying323 Damage by stock	Red Rock wheat, history of808	Flat feet309
Speed in shop production needed23		Defense to note289 Descent, land contract776	tenant	Fracture445
Stover silage	dissatisfied	Devitalized chicks414 Different width drill rows	Right of lessor on lands. 566	Fungus growth on hock309
Sugar beet fields, crops for	year303	and yield 593 Diphtheretic roup 89		fails to come in heat485
Sweet clover, experience with461	Good roads, better schools.214 Grand Ledge farmers or-	Division of crops on shares325 Doe, feeding a257	Rights on streams809 Root cellar736	Imperfect udder340
not a pest	ganize	Does shade interfere with bush fruits?201	Roughage lacks protein655 Sale by mortgage473	Indegestion485, 573 Infected udder889
ship	Guernsey breeders busy584	Drain	on warranty 44 subject to land contract 84 Sawdust for bedding 42	teat
Tile, does your farm need.11' Timber dealers make big			School elections614	Light milker389
killing	International association of	ing	to clover and grasses. 129	Lumbago
Urges waterway improvement580	Jersey farmers organize 190	Early cabbage, growing361 Egg eating, preventing611	Settlement with tenant362	Luxation of patella657 Lymphangitis445, 689
Waste land, shall it be inventoried?48 Water supply on the farm.893	Litternera creamery	Estate by entirety480 Farming on shares41, 672	Sheep pasture363, 736	Malignant tumor485 Mange340, 761 Milk fever657
Wheat should bring \$3698 When auction day comes446	ing151, 802		roughage 44	Moldy corn
When we are building 78 Wisconsin clears land 439	shippers at Detroit275		value of	Navicular lameness825 Nervous cow617
Woodlot products, market- ing the799, 858	Merino breeders raise	Fence posts, treating, 242,	Skim-milk, value of 789 whey 66	Nodular disease657 Obstructed teat340, 525
Yellow rocket900	Michigan beet growers' or-	Fertilizer analysis236	Soy beans, culture of 611, 738	Open joint
Breeder, Marketing and General Business.)	breeders and feeders	for corn and potatoes545	for silage267. 304	Ovarian cysts
Agricultural policy, a comprehensive27	, Minnesota potato growers	Flour and bread for feed- ing	Standard vehicle law362 Stock on highway776	Piles
Bankers support dairymen	Milk canners' merge 86		Straw on farm purchased.,304	Rheumatism 69 Ringworm
Battle Creek community club313, 450, 468	and community829		304	Roarer 389 Scours 889 Scratches 69
Bee-keepers organize Berkshire meeting487, 618 Berry growers organize532	bureau seven years old269	ration for horses549 ration with ensilage and	Sunburned potatoes, plant-	Shy breeder183, 309, 340
Beet growers at Saginaw452 hold round-up350	Osseo farmers organize437 Potato growers meet, 10, 121,	to supplement hav and	Sunflower and corn silage.414	Sore shoulder
organizations	Pulling together	Growth over eve	and ditches	Spinal disease485, 573 Split tooth 525
Boys' and Girls' Club work	Railroads, the229, 317 Roads, the farmer and	Head turns dark916 Hens die on pests	Swelling near eye788 Taxes	Stiffness
Buell, Dorr D., with Farm	Sheepmen plan to pool	with diarrhea615 scables546	tion932	Suppurative pneumonia . 617
Canners appeal for supplies866	Shiawassee and Genesee	Warts	Tenant's rights539 Title abstracts776	Teat stricture
Canning crop growers or-	Short courses for live stock shippers	Horse feeds on rented farm	Top-dressing for clover seed	Too much salt
Church surveys381	Shorthorn registration fee increased	House for 200 hens868 How to start with poultry.609 Humus crops for sandy		Warbles
"Coops" take short course.275	South Dakota wool growers organize580	land505		Warts

Weak ligaments309	Suggestion to stock feeders	Heating timely hints on 214	1rot 200	Farm quetion scene 670
Weak ligaments505 Weakness525, 617, 825	Suggestion to stock feeders	Heating, timely hints on214 Home-maker's library 59	Successful partnership with	Farm auction scene 670 crops exhibit at M. A. C.349
Worms309, 617, 689, 947	Uruguay gets American cat-	Honey in cakes428	father820	flock
Wounded shin389			The junior farmer102	scene
Live Stock and Dairy.	Winter pigs417			Father and sons with Short-
	wool, handling the 1920	home-makers141	mow	horns
Abandons seven-day test 87 Ayrshires invade west487		Keeping afloat in the H.	Valentine party, a210	Ford. Henry378
Angus cattle, why we breed 35	classification of536	C. L	Watch for the dog man942	Fruit trees, feeding729
April and May dairy notes.489	in suit costs \$7.37306	Keep lamps burning bright-	What to plant in your gar-	Garments from flour sacks.880
Bankers support daimymen	plans to handle Michi-	No king good citizana		Geese, flock of
703	situation, the present 39	Making good citizens 98 Means of governing the		Girl graduate
Berkshire men meet619 Belgians get American cat-	sorting895	child785	life is in the building210	State Fair210
tle	Work horses, care of538		Whittling to some purpose.846	Good crops on light soils153
Better beef for Michigan 397	Horticulture.	One-dish dinners298	life is in the buildign210	Handicraft articles474
Calf and its mother302	Apple scab	"Papa does it"260	Why they cultivate846	Hatching with incubator577
Campbell reveals wool	American fruit at York-	Pass the stew to everyone	Magazine and Poetry.	Hay on limed soils579
Steal	shire	174	A cradle of true American-	Hereford bull Keepon275
outlook	Cherry growers organize850	Pieplant in winter 100	sim168	Repeater416, 533
values fall383	Dusting for fruit diseases531		A fight to the finish254	
Chicago cattle market. 67, 481	Fertilizing the orchard729	Renovating house furnishings	A flower that will grow in any dooryard816	breeders at M. A. C698
hog market 87	Fruit and nut trees592	Salt-rising bread without	Body-building contest513	herd113
Colony hog house774 Community stock breeding	business, outlook for436 Garden notes503, 593, 683	meal515	Crooked Trails and	Home planting621
	Gardens cut living costs 513	Sanitary floors819		Jersey, record cow 36, 502, 581
Condensed milk situation, 526,	Growing maple and walnut	Service	206, 250, 294, 330, 368 District number three422	Junior farmers take seventh degree at Nation-
723, 850.	G	an insect control meas-	Friendship on world scale	al Grange102
	Gypsy moth feared500	ure	842	Kitchen wagon374
Creamery to close down575 Dairy feeds, some common		Spring's first fruit784	Greater things than these.742	
		Study ways to make time.212		
herd, management of 77	growers' meet164, 192	Sure, you are going to vote	Inspiration from the life of Lincoln204	Leggat, Thomas, and prize calf820, 822
	Onions, growing278	Sweater from knitted scarf	Little farm fables133	Leghorn flock 3
situation demands econ-	Orcharding, future of695 Pickle growers want high-	shawl377	Missionary farmer, the938	Legume crops533
omy546	er prices		"Never went to church"910	
	Planting trees593	The boon of curiosity476 The child and the dark261	Preaching in unexpected	Berrien county406 Making over underwear175
Dairymen must insist on	Plants protected against	The nurse's health talks560	places708	pies
better quality463	disease	The wedding gown914	Religion and health876	Maple sugar bush scenes
Docking and castrating the lambs719	Pruning and spraying makes orchard pay218	The woman's opportunity	Running the gauntlet 92	345, 380, 668
Duroc breeders active359	orchards384, 592	on the farm606 Things for the emergency	Silver fox farming134 Story of the Emden713	
Ewes, care of386	Rhubarb, growing278		Sunshine Hollow Items, 512,	
Fair price commission, 628,	Seeking new garden plants	Time-tested meat recipes.561	557 , 6 03, 641 , 679, 708,	club work727, 750, 751
661 , 664.	Selecting small fruit 472	Tripe, preparing60	787, 817, 843, 876, 910.	crop improvement asso-
Farm flock in spring493 Feeder cattle in demand619	Chifting plants (5)	Washing with a machine212	The art of walking708 The light on the lake292	ciation, directors and
Feed prices and prospects, 37,	Starting the early garden	When common sense rules	The Valley of the Giants, 552,	advisors
189, 402, 581, 769, 899.	plants	646	596, 642, 676, 710, 746,	club
Feeds for dairy herd. 193, 356		she gets her diploma 818		Michigan State Farm Bu-
Foreign meat needs 71	Vocatable growing Sebt the	you buy a table 58	When country met city370	reau, executive com-
Gartic flavor in milk338 Good beef selling at sac-	corn borer 494	make cake	When stories were baked. 423 Whose neighbor are you? 783	new home
rifice prices803	novelties	Whey utilizing in cooking 515	POETRY.	officers and delegates225
Guernsey breeders busy in	wamut, growing the632	Who says the price of eggs	City life vs country life, 877	Milking machine, latest
Berrien county584, 864	Poultry, Bees and Rabbits.	is too high?	Easter 557	style
Hay for dairy farms654	April poultry reminders. 653 Bee ailments	Why magazines are delayed	Guests	Motion picture scene829
High-class bull comes to Michigan416		Women become Farm Ru-	Hens a hatchin'715	Mumford, H. W451
Hog industry326, 757		reau enthusiasts141	My own hymn of greater	Old church choir449, 468
The middle of the control of the con	Dean increasing without	Work for your club844	A	Alld fachioned well eween 144
market163, 619, 887	bees, increasing without		America812	Old-lasilioned well sweep140
market163, 619, 887 outlook264, 441	swarming899	Worn stockings, refooting.375	On the fence	Old-fashioned well sweep140 Pear tree, pruning a592 Pierlant in winter
market163, 619, 887 outlook264, 441 Hogs in transit923	swarming	Worn stockings, refoating.375 Your child's eyes 98	On the fence	Pear tree, pruning a592 Pieplant in winter100
market163, 619, 887 outlook264, 441 Hogs in transit923 finds feeding profitable108	swarming	Worn stockings, refoating 378 Your child's eyes 98	On the fence	Pear tree, pruning a 192 Pieplant in winter 100 Plowing under vegetable
market163, 619, 887 outlook264, 441 Hogs in transit923 finds feeding profitable108	swarming	Worn stockings, refooting.373 Your child's eyes 98 Boys and Girls.	On the fence	Pear tree, pruning a592; Pieplant in winter100 Plowing under vegetable matter927
market	swarming	Worn stockings, refooting 375 Your child's eyes 98 Boys and Girls. All one hig family 47	On the fence	Pear tree, pruning a
market	swarming	Worn stockings, refooting 373 Your child's eyes 98 Boys and Girls. All one hig family 474 An Indiana girl's pig 517	On the fence	Pear tree, pruning a
market	swarming	Worn stockings, refooting 373 Your child's eyes 98 Boys and Girls. All one hig family 473 An Indiana girl's pig 517 Blue ribbon farmers 72	On the fence	Pear tree, pruning a
market	swarming	Worn stockings, refooting 375 Your child's eyes 98 Boys and Girls. All one hig family 474 An Indiana girl's pig 517 Blue ribbon farmers 727 Boy and girl helpers 945 Boys' and Girls' club	On the fence	Pear tree, pruning a592 Pieplant in winter100 Plowing under vegetable matter927 Potatoes affected with the black scurf882 cutting453, 480 grown from a fertilized soil347 harvesting453
market	swarming	Worn stockings, refooting 375 Your child's eyes 98 Boys and Girls. All one big family 476 An Indiana girl's pig 517 Blue ribbon farmers 727 Boy and girl helpers 944 Boys' and Girls' (club	On the fence	Pear tree, pruning a592 Pieplant in winter100 Plowing under vegetable matter927 Potatoes affected with the black scurf882 cutting453, 480 grown from a fertilized soil347 harvesting453 healthy and diseased155
market	swarming	Worn stockings, refooting 375 Your child's eyes 98 Boys and Girls. All one hig family 474 An Indiana girl's pig 517 Blue ribbon farmers 727 Boy and girl helpers 942 Boys' and Girls' chub work 765 covers Michigan 756	On the fence	Pear tree, pruning a
market	swarming	Worn stockings, refooting 375 Your child's eyes 98 Boys and Girls. All one big family 474 An Indiana girl's pig 517 Blue ribbon farmers 727 Boy and girl helpers 943 Boys' and Girls' (club work 765 Covers Michigan 756 Boys' likes and dislikes 177	On the fence	Pear tree, pruning a
market	swarming	Worn stockings, refooting 373 Your child's eyes 98 Boys and Girls. All one hig family 473 An Indiana girl's pig 517 Blue ribbon farmers 727 Boy and girl helpers 943 Boys' and Girls' (club work 765 covers Michigan 756 Boys' likes and dislikes 177 Bringing up orphan lambs 682 Bumper the white rabbit	On the fence	Pear tree, pruning a 592 Pieplant in winter 100 Plowing under vegetable matter 927 Potatoes affected with the black scurf 882 cutting 453, 480 grown from a fertilized soil 347 harvesting 453 healthy and diseased 155 results from treated seed spraying 453
market	swarming	Worn stockings, refooting 375 Your child's eyes 98 Boys and Girls. All one big family 474 An Indiana girl's pig 517 Blue ribbon farmers 727 Boy and girl helpers 943 Boys' and Girls' (club work 765 covers Michigan 756 Boys' likes and dislikes 177 Bringing up orphan lambs 682 Bumper the white rabbit 62, 93, 372	On the fence	Pear tree, pruning a
market	swarming	Worn stockings, refooting 373 Your child's eyes 98 Boys and Girls. All one hig family 474 An Indiana girl's pig 517 Blue ribbon farmers 727 Boy and girl helpers 944 Boys' and Girls' (club work 765 covers Michigan 765 covers Michigan 767 Bringing up orphan lambs .682 Bumper the white rabbit62, 93, 372 Calves given to beln clubs .211	On the fence	Pear tree, pruning a 592 Pieplant in winter 100 Plowing under vegetable matter 927 Potatoes affected with the black scurf 882 cutting 453, 480 grown from a fertilized soil 347 harvesting 453 healthy and diseased 155 results from treated seed 831 spraying 453 Potato field, C. A. Wood 143 Poultry house, front elavation of 368
market	swarming	Worn stockings, refooting 373 Your child's eyes 98 Boys and Girls. All one hig family 473 An Indiana girl's pig 517 Blue ribbon farmers 727 Boy and girl helpers 942 Boys' and Girls' (club work 765 covers Michigan 765 Boys' likes and dislikes 177 Bringing up orphan lambs 682 Bunger the white rabbit 62, 93, 372 Calves given to help clubs .211 Caresco pig club 336	On the fence	Pear tree, pruning a592 Pieplant in winter100 Plowing under vegetable matter927 Potatoes affected with the black scurf882 cutting453, 480 grown from a fertilized soil347 harvesting453 healthy and diseased .155 results from treated seed spraying453 Potato field, C. A. Wood .143 Poultry house, front elavation of863 Poultry show at M. A. C430
market	swarming	Worn stockings, refooting 373 Your child's eyes 98 Boys and Girls. All one big family 474 An Indiana girl's pig 514 Boy and girl helpers 943 Boys' and Girls' club work 763 covers Michigan 756 Boys' likes and dislikes 177 Bringing up orphan lambs 682 Bumper the white rabbit 62, 93, 372 Calves given to help clubs .211 Ceresco pig club 336 Developing the farm boy .716	On the fence	Pear tree, pruning a 592 Pieplant in winter 100 Plowing under vegetable matter 927 Potatoes affected with the black scurf 882 cutting 453, 480 grown from a fertilized soil 347 harvesting 453 healthy and diseased 155 results from treated seed 831 spraying 453 Potato field, C. A. Wood 143 Poultry house, front elavation of 368
market	swarming	Worn stockings, refooting 373 Your child's eyes 98 Boys and Girls. All one big family 474 An Indiana girl's pig 511 Blue ribbon farmers 725 Boy and girl helpers 945 Boys' and Girls' club work 765 covers Michigan 756 Boys' likes and dislikes 177 Bringing up orphan lambs 682 Bumper the white rabbit 62, 93, 372 Calves given to help clubs .211 Ceresco pig club 336 Developing the farm boy .716 Duroc breeders push pig club work 211	On the fence	Pear tree, pruning a 592 Pieplant in winter 100 Plowing under vegetable matter 927 Potatoes affected with the black scurf 882 cutting 453, 480 grown from a fertilized soil 347 harvesting 453 healthy and diseased 155 results from treated seed spraying 453 Potato field, C. A. Wood 143 Poultry house, front elavation of 368 Poultry show at M. A. C. 430 Putman, Dwight and Duroc 786 Red Polled bull and cow 244
market	swarming	Worn stockings, refooting 373 Your child's eyes 98 Boys and Girls. All one hig family 473 An Indiana girl's pig 517 Blue ribbon farmers 727 Boy and girl helpers 942 Boys' and Girls' club work 765 covers Michigan 756 Boys' likes and dislikes 177 Bringing up orphan lambs 682 Bumper the white rabbit 62, 93, 372 Calves given to help clubs .211 Ceresco pig club 336 Developing the farm boy .716 Duroc breeders push pig club work 211 Father and son partnership	On the fence	Pear tree, pruning a 592 Pieplant in winter 100 Plowing under vegetable matter 927 Potatoes affected with the black scurf 882 cutting 453, 480 grown from a fertilized soil 347 harvesting 453 healthy and diseased 155 results from treated seed spraying 453 Potato field, C. A. Wood 143 Poultry house, front elavation of 868 Poultry show at M. A. C. 430 Putman, Dwight and Duroc Red Polled bull and cow 244 Re-footing stockings 375
market	swarming	Worn stockings, refooting 373 Your child's eyes 98 Boys and Girls. All one hig family 474 An Indiana girl's pig 517 Buy and girl helpers 944 Boys' and Girls' (club work 765 covers Michigan 766 covers Michigan 767 Bringing up orphan lambs .682 Bumper the white rabbit 62, 93, 372 Calves given to help clubs 211 Coresco pig club 336 Developing the farm boy 716 Duroc breeders push pig 211 Father and son partnership 712 Feeding and caring for cat-	On the fence	Pear tree, pruning a 592 Pieplant in winter 100 Plowing under vegetable matter 927 Potatoes affected with the black scurf 882 cutting 453, 480 grown from a fertilized soil 347 harvesting 453 healthy and diseased 155 results from treated seed 831 spraying 453 Potato field, C. A. Wood .143 Poultry house, front elavation of 868 Poultry show at M. A. C. 430 Putman, Dwight and Duroe 786 Red Polled bull and cow 244 Re-footing stockings 375 Road building 510, 512
market	swarming	Worn stockings, refooting 373 Your child's eyes 98 Boys and Girls. All one hig family 473 An Indiana girl's pig 517 Blue ribbon farmers 722 Boy and girl helpers 943 Boys' and Girls' club work 763 covers Michigan 756 Boys' likes and dislikes 177 Bringing up orphan lambs 682 Bumper the white rabbit 62, 93, 372 Calves given to help clubs .211 Coresco pig club 336 Developing the farm boy .716 Duroc breeders push pig chub work 211 Father and son partnership 712 Feeding and caring for cat- tle 474	On the fence	Pear tree, pruning a
market	swarming	Worn stockings, refooting 373 Your child's eyes 98 Boys and Girls. All one hig family 474 An Indiana girl's pig 517 Blue ribbon farmers 727 Boy and girl helpers 944 Boys' and Girls' club work 765 covers Michigan 756 Boys' likes and dislikes 177 Bringing up orphan lambs 682 Bumper the white rabbit 62, 93, 372 Calves given to help clubs 211 Coresco pig club 336 Developing the farm boy 716 Duroc breeders push pig 211 Father and son partnership 712 Feeding and caring for cat- tle 474 For farmers of tomorrow 337	On the fence	Pear tree, pruning a 592 Pieplant in winter 100 Plowing under vegetable matter 927 Potatoes affected with the black scurf 882 cutting 453, 480 grown from a fertilized soil 347 harvesting 453 healthy and diseased 155 results from treated seed 831 spraying 453 Potato field, C. A. Wood .143 Poultry house, front elavation of 868 Poultry show at M. A. C. 430 Putman, Dwight and Duroe 786 Red Polled bull and cow 244 Re-footing stockings 375 Road building 510, 512
market	swarming	Boys and Girls. All one hig family	On the fence	Pear tree, pruning a 592 Pieplant in winter 100 Plowing under vegetable matter 927 Potatoes affected with the black scurf 882 cutting 453, 480 grown from a fertilized soil 347 harvesting 453 healthy and diseased 155 results from treated seed 831 spraying 453 Poultry house, front elavation of 868 Poultry show at M. A. C. 430 Putman, Dwight and Duroe 786 Red Polled bull and cow 244 Re-footing stockings 375 Road building 510, 512 Rural ministers at M. A. C 872 school house remodeled 273 Rye after soy beans 37
market	swarming	Boys and Girls. All one hig family 474 An Indiana girl's pig 517 Blue ribbon farmers 727 Boy and girh helpers 942 Boys' and Girls' club work 765 covers Michigan 756 Boys' likes and dislikes 177 Bringing up orphan lambs 63 Bumper the white rabbit Ceresco pig club 336 Developing the farm boy 716 Duroc breeders push pig club work 211 Father and son partnership 712 Feeding and caring for cat- tle 474 For farmers of tomorrow 337 For father and mother 62 Fun and profit in pigeons 430	On the fence	Pear tree, pruning a
market	swarming	Boys and Girls. All one hig family	On the fence	Pear tree, pruning a 592 Pieplant in winter 100 Plowing under vegetable matter 927 Potatoes affected with the black scurf 882 cutting 453, 480 grown from a fertilized soil 347 harvesting 453 healthy and diseased 155 results from treated seed 831 spraying 453 Poultry house, front elavation of 868 Poultry show at M. A. C. 430 Putman, Dwight and Duroe 786 Red Polled bull and cow 244 Re-footing stockings 375 Road building 510, 512 Rural ministers at M. A. C 872 school house remodeled 273 Rye after soy beans 37
market	swarming	Boys and Girls. All one hig family	On the fence	Pear tree, pruning a 592 Pieplant in winter 100 Plowing under vegetable matter 927 Potatoes affected with the black scurf 882 cutting 453, 480 grown from a fertilized soil 347 harvesting 453 healthy and diseased 155 results from treated seed 831 spraying 453 Poultry house, front elavation of 868 Poultry show at M. A. C. 430 Putman, Dwight and Duroe 786 Red Polled bull and cow 244 Re-footing stockings 375 Road building 510, 512 Rural ministers at M. A. C 872 school house remodeled 273 Rye after soy beans 37 Shearing sheep 39 Sheep, flock of 185 Short-course students at M. A. C 64
market	swarming	Boys and Girls. All one hig family	On the fence	Pear tree, pruning a 592 Pieplant in winter 100 Plowing under vegetable matter 927 Potatoes affected with the black scurf 882 cutting 453, 480 grown from a fertilized soil 347 harvesting 453 healthy and diseased 155 results from treated seed spraying 453 Potato field, C. A. Wood 143 Poultry house, front elavation of 368 Poultry show at M. A. C. 430 Putman, Dwight and Duroc 786 Red Polled bull and cow 244 Re-footing stockings 375 Road building 510, 512 Rural ministers at M. A. C 872 school house remodeled 273 Shearing sheep 35 Short-course students at M. A. C 64 Short-horns of McQuillan
market	swarming	Boys and Girls. All one hig family	On the fence	Pear tree, pruning a 592 Pieplant in winter 100 Plowing under vegetable matter 927 Potatoes affected with the black scurf 882 cutting 453, 480 grown from a fertilized soil 347 harvesting 453 healthy and diseased 155 results from treated seed spraying 453 Potato field, C. A. Wood 145 Poultry house, front elavation of 368 Poultry show at M. A. C. 430 Putman, Dwight and Duroc 786 Red Polled bull and cow 244 Re-footing stockings 375 Road building 510, 512 Rural ministers at M. A. C 872 school house remodeled 273 Rye after soy beans 37 Shearing sheep 39 Sheep, flock of 185 Short-course students at M. A. C 64 Shorthorns of McQuillan & Sons 331
market	swarming	Boys and Girls. All one hig family	On the fence	Pear tree, pruning a 592 Pieplant in winter 100 Plowing under vegetable matter 927 Potatoes affected with the black scurf 882 cutting 453, 480 grown from a fertilized soil 347 harvesting 453 healthy and diseased 155 results from treated seed spraying 453 Potato field, C. A. Wood 143 Poultry house, front elavation of 368 Poultry show at M. A. C. 430 Putman, Dwight and Duroc 786 Red Polled bull and cow 244 Re-footing stockings 375 Road building 510, 512 Rural ministers at M. A. C 872 school house remodeled 273 Rye after soy beans 37 Shearing sheep 39 Sheep, flock of 185 Short-course students at M. A. C 64 Shorthorns of McQuillan & Sons 931 Shropshire rams of H. E.
market	swarming	Boys and Girls. All one hig family	On the fence	Pear tree, pruning a 592 Pieplant in winter 100 Plowing under vegetable matter 927 Potatoes affected with the black scurf 882 cutting 453, 480 grown from a fertilized soil 347 harvesting 453 healthy and diseased 155 results from treated seed spraying 453 Potato field, C. A. Wood 143 Poultry house, front elavation of 863 Poultry show at M. A. C. 430 Putman, Dwight and Duroe 786 Red Polled bull and cow 244 Re-footing stockings 375 Road building 510, 512 Rural ministers at M. A. C 872 school house remodeled 273 Rye after soy beans 37 Shearing sheep 39 Sheep, flock of 185 Short-course students at M. A. C 64 Shorthorns of McQuillan & Sons 931 Shropshire rams of H. E. Powell 3
market	swarming	Boys and Girls. All one hig family	On the fence	Pear tree, pruning a 592 Pieplant in winter 100 Plowing under vegetable matter 927 Potatoes affected with the black scurf 882 cutting 453, 480 grown from a fertilized soil 347 harvesting 453 healthy and diseased 155 results from treated seed spraying 453 Poutato field, C. A. Wood 145 Poultry house, front elavation of 365 Poultry show at M. A. C. 430 Putman, Dwight and Duroc 786 Red Polled bull and cow 244 Re-footing stockings 375 Road building 510, 512 Rural ministers at M. A. C 872 school house remodeled 273 Rye after soy beans 37 Shearing sheep 39 Sheep, flock of 185 Short-course students at M. A. C 64 Shorthorns of McQuillan & Sons 931 Shropshire rams of H. E. Powell 3 Silver fox farming 134, 136 Sleeper, Albert E 138
market	swarming	Boys and Girls. All one hig family	On the fence	Pear tree, pruning a 592 Pieplant in winter 100 Plowing under vegetable matter 927 Potatoes affected with the black scurf 882 cutting 453, 480 grown from a fertilized soil 347 harvesting 453 healthy and diseased 155 results from treated seed spraying 453 Potato field, C. A. Wood 143 Poultry house, front elavation of 863 Poultry show at M. A. C. 430 Putman, Dwight and Duroc 786 Red Polled bull and cow 244 Re-footing stockings 375 Road building 510, 512 Rural ministers at M. A. C 872 school house remodeled 273 Rye after soy beans 37 Shearing sheep 39 Sheep, flock of 185 Short-course students at M. A. C 64 Shorthorns of McQuillan & Sons 931 Shropshire rams of H. E. Powell 3 Silver fox farming 134, 136 Sleeper, Albert E 138 Soy beans 458
market	swarming	Boys and Girls. All one hig family	On the fence	Pear tree, pruning a 592 Pieplant in winter 100 Plowing under vegetable matter 927 Potatoes affected with the black scurf 882 cutting 453, 480 grown from a fertilized soil 347 harvesting 453 healthy and diseased 155 results from treated seed spraying 453 Potato field, C. A. Wood 143 Poultry house, front elavation of 368 Poultry show at M. A. C. 430 Putman, Dwight and Duroc 786 Red Polled bull and cow 244 Re-footing stockings 375 Road building 510, 512 Rural ministers at M. A. C 872 school house remodeled 273 Rye after soy beans 37 Shearing sheep 39 Sheep, flock of 185 Short-course students at M. A. C 64 Shorthorns of McQuillan & Sons 931 Shropshire rams of H. E. Powell 3 Silver fox farming 134, 136 Sleeper, Albert E 138 Soy beans 458 Spraying 833
market	swarming	Boys and Girls. All one hig family	On the fence	Pear tree, pruning a
market	swarming	Worn stockings, refooting 373 Your child's eyes 98 Boys and Girls. All one hig family 473 An Indiana girl's pig 517 Blue ribbon farmers 722 Boy and girl helpers 944 Boys' and Girls' club work 765 covers Michigan 756 Boys' likes and dislikes 177 Bringing up orphan lambs 682 Bumper the white rabbit 62, 93, 372 Calves given to help clubs 211 Coresco pig club 336 Developing the farm boy 716 Duroc breeders push pig club work 211 Father and son partnership 712 Feeding and caring for cattle 474 For farmers of tomorrow 337 For father and mother 62 Fun and profit in pigeons 430 Girls make poultry record 103 Goldbricks in your own backyard 558 Helped or burt by farm life 300 Help for young folks 750 Hens help boys in college 648 Here is pluck, boys 517 How I fed my calf 339	On the fence	Pear tree, pruning a
market	swarming	Boys and Girls. All one hig family	On the fence	Pear tree, pruning a 592 Pieplant in winter 100 Plowing under vegetable matter 927 Potatoes affected with the black scurf 882 cutting 453, 480 grown from a fertilized soil 347 harvesting 453 healthy and diseased 155 results from treated seed spraying 453 Potato field, C. A. Wood 143 Poultry house, front elavation of 368 Poultry show at M. A. C. 430 Putman, Dwight and Duroc 786 Red Polled bull and cow 244 Re-footing stockings 375 Road building 510, 512 Rural ministers at M. A. C 872 school house remodeled 273 Rye after soy beans 37 Shearing sheep 39 Sheep, flock of 185 Short-course students at M. A. C 64 Shorthorns of McQuillan & Sons 931 Shropshire rams of H. E. Powell 3 Silver fox farming 134, 136 Sleeper, Albert E 138 Soy beans 458 Spraying 893 Spreading lime 73 State live stock sanitary commission 542 Strawberry shortcake 315
market	swarming	Boys and Girls. All one hig family	On the fence	Pear tree, pruning a 592 Pieplant in winter 100 Plowing under vegetable matter 927 Potatoes affected with the black scurf 882 cutting 453, 480 grown from a fertilized soil 347 harvesting 453 healthy and diseased 155 results from treated seed spraying 453 Potato field, C. A. Wood 143 Poultry house, front elavation of 368 Poultry show at M. A. C. 430 Putman, Dwight and Duroc 786 Red Polled bull and cow 244 Re-footing stockings 375 Road building 510, 512 Rural ministers at M. A. C 872 school house remodeled 273 Rye after soy beans 37 Shearing sheep 39 Sheep, flock of 185 Short-course students at M. A. C 64 Shorthorns of McQuillan & Sons 931 Shropshire rams of H. E. Powell 3 Silver fox farming 134, 136 Sleeper, Albert E 138 Soy beans 458 Spraying 935 Strawberry shortcake 915 Sugar beets on muck land 579 Sugar beets on muck land 579
market	swarming	Boys and Girls. All one hig family	On the fence	Pear tree, pruning a
market	swarming	Boys and Girls. All one hig family	On the fence	Pear tree, pruning a
market	swarming	Boys and Girls. All one hig family	On the fence	Pear tree, pruning a 592 Pieplant in winter 100 Plowing under vegetable matter 927 Potatoes affected with the black scurf 882 cutting 453, 480 grown from a fertilized soil 347 harvesting 453 healthy and diseased 155 results from treated seed spraying 453 Potato field, C. A. Wood 143 Poultry house, front elavation of 863 Poultry show at M. A. C. 430 Putman, Dwight and Duroe 786 Red Polled bull and cow 244 Re-footing stockings 375 Road building 510, 512 Rural ministers at M. A. C 872 school house remodeled 273 Rye after soy beans 37 Shearing sheep 39 Sheep, flock of 185 Short-course students at M. A. C 64 Shorthorns of McQuillan & Sons 931 Shropshire rams of H. E. Powell 3 Silver fox farming 134, 136 Sleeper, Albert E 138 Soy beans 458 Spraying 893 Spreading lime 73 Strawberry shortcake 315 Sugar beets on muck land 579 Surveying tile drains 117 Swimming tank at M. A. C. 340 Tables, types of 58
market	swarming	Boys and Girls. All one hig family	On the fence	Pear tree, pruning a 592 Pieplant in winter 100 Plowing under vegetable matter 927 Potatoes affected with the black scurf 882 cutting 453, 450 grown from a fertilized soil 347 harvesting 453 healthy and diseased 155 results from treated seed spraying 453 Potato field, C. A. Wood 145 Poultry house, front elavation of 368 Poultry show at M. A. C. 430 Putman, Dwight and Duroc 786 Red Polled bull and cow 244 Re-footing stockings 375 Road building 510, 512 Rural ministers at M. A. C. school house remodeled 273 Rye after soy beans 37 Shearing sheep 39 Sheep, flock of 185 Short-course students at M. A. C 64 Shorthorns of McQuillan & Sons 931 Shropshire rams of H. E. Powell 3 Silver fox farming 134, 136 Sleeper, Albert E 138 Soy beans 458 Spraying 893 Spraying 893 Spreading lime 73 State live stock sanitary commission 542 Strawberry shortcake 915 Sugar beets on muck land 579 Surveying tile drains 117 Swimming tank at M. A. C. 340 Tables, types of 58 Tapped maple tree 43 Teaching use of the tooth
market	swarming	Boys and Girls. All one hig family	On the fence	Pear tree, pruning a
market	swarming	Boys and Girls. All one hig family	On the fence	Pear tree, pruning a 392 Pieplant in winter 100 Plowing under vegetable matter 927 Potatoes affected with the black scurf 882 cutting 453, 450 grown from a fertilized soil 347 harvesting 453 healthy and diseased 155 results from treated seed 831 spraying 453 Potato field, C. A. Wood 142 Poultry house, front elavation of 368 Poultry show at M. A. C. 430 Putman, Dwight and Duroc 786 Red Polled bull and cow 244 Re-footing stockings 375 Road building 510, 512 Rural ministers at M. A. C 872 school house remodeled 273 Rye after soy beans 37 Shearing sheep 39 Sheep, flock of 185 Short-course students at M. A. C 64 Shorthorns of McQuillan & Sons 931 Shropshire rams of H. E. Powell 3 Silver fox farming 134, 136 Sleeper, Albert E 138 Soy beans 458 Spraying 893 Spreading lime 73 State live stock sanitary commission 542 Strawberry shortcake 915 Sugar beets on muck land 579 Surveying tile drains 117 Swimming tank at M. A. C. 344 Tractor on Mr. Ackerman's
market	swarming	Boys and Girls. All one hig family	On the fence	Pear tree, pruning a
market	swarming	Boys and Girls. All one hig family 474 An Indiana girl's pig 517 Blue ribbon farmers 727 Boy and girh helpers 943 Boys' and Girls' club work 765 covers Michigan 765 Boys' likes and dislikes 177 Bringing up orphan' lambs 682 Bumper the white rabbit 62, 93, 372 Calves given to help clubs .211 Ceresco pig club 336 Developing the farm boy .716 Duroc breeders push pig club work 211 Father and son partnership 712 Feeding and caring for cattle 474 For farmers of tomorrow 337 For father and mother 62 Fun and profit in pigeons 430 Girls make poultry record 103 Goldbricks in your own backyard	On the fence	Pear tree, pruning a
market	swarming	Boys and Girls. All one hig family 474 An Indiana girl's pig 517 Blue ribbon farmers 727 Boy and girh helpers 943 Boys' and Girls' chub work 765 covers Michigan 766 Boys' likes and dislikes 177 Bringing up orphan lambs 682 Bumper the white rabbit 62, 93, 372 Calves given to help clubs 211 Ceresco pig club 336 Developing the farm boy 716 Duroc breeders push pig club work 211 Father and son partnership 712 Feeding and caring for cattle 474 For farmers of tomorrow 337 For father and mother 62 Fun and profit in pigeons 430 Girls make poultry record .103 Goldbricks in your own hackyard	On the fence	Pear tree, pruning a 592 Pieplant in winter 100 Plowing under vegetable matter 927 Potatoes affected with the black scurf 882 cutting 453, 480 grown from a fertilized soil 347 harvesting 453 healthy and diseased 155 results from treated seed spraying 453 Potato field, C. A. Wood 143 Poultry house, front elavation of 368 Poultry show at M. A. C. 430 Putman, Dwight and Duroc 786 Red Polled bull and cow 244 Re-footing stockings 375 Road building 510, 512 Rural ministers at M. A. C 872 school house remodeled 273 Rye after soy beans 37 Shearing sheep 39 Sheep, flock of 185 Short-course students at M. A. C 64 Shorthorns of McQuillan & Sons 931 Shropshire rams of H. E. Powell 3 Silver fox farming 134, 136 Sleeper, Albert E 138 Soy beans 458 Spraying 893 Spreading lime 73 State live stock sanitary commission 542 Strawberry shortcake 315 Sugar beets on muck land 579 Surveying tile drains 117 Swimming tank at M. A. C. 840 Tapped maple tree 48 Teaching use of the tooth brush 334 Tractor on Mr. Ackerman's farm 452 Truck loaded with 2lfalfa 27 Turkey from flock of Mrs. Cramton 213
market	swarming	Boys and Girls. All one hig family	On the fence	Pear tree, pruning a
market	swarming	Boys and Girls. All one hig family	On the fence	Pear tree, pruning a
market	swarming	Boys and Girls. All one hig family	On the fence	Pear tree, pruning a
market	swarming	Boys and Girls. All one hig family	On the fence	Pear tree, pruning a 592 Pieplant in winter 100 Plowing under vegetable matter 927 Potatoes affected with the black scurf 882 cutting 453, 450 grown from a fertilized soil 347 harvesting 453 healthy and diseased 155 results from treated seed spraying 453 Potato field, C. A. Wood 142 Poultry house, front elavation of 863 Poultry show at M. A. C. 430 Putman, Dwight and Duroc 786 Red Polled bull and cow 244 Re-footing stockings 375 Road building 510, 512 Rural ministers at M. A. C 872 school house remodeled 273 Rye after soy beans 37 Shearing sheep 39 Sheep, flock of 185 Short-course students at M. A. C 64 Shorthorns of McQuillan & Sons 931 Shropshire rams of H. E. Powell 3 Silver fox farming 134, 136 Sleeper, Albert E 138 Soy beans 458 Spraying 893 Spreading lime 73 Strawberry shortcake 315 Strawberry shortcake 315 Surveying tile drains 117 Swimming tank at M. A. C. 340 Tables, types of 58 Tapped maple tree 43 Tractor on Mr. Ackerman's farm 452 Truck loaded with alfalfa 227 Turkey from flock of Mrs. Cramton 213 Turkeys, purebred 144 Water supply for farm 902 Wedding gown 914
market	swarming	Boys and Girls. All one hig family	On the fence	Pear tree, pruning a
market	swarming	Boys and Girls. All one hig family	On the fence	Pear tree, pruning a
market	swarming	Boys and Girls. All one hig family 474 An Indiana girl's pig 517 Blue ribbon farmers 727 Boy and girl helpers 943 Boys' and Girls' chub work 765 covers Michigan 756 Boys' fikes and dislikes 177 Bringing up orphan lambs 682 Bumper the white rabbit 62, 93, 372 Calves given to help clubs 211 Coresco pig club 336 Developing the farm boy 716 Duroc breeders push pig club work 211 Father and son partnership 712 Feeding and caring for cattle 474 For farmers of tomorrow 337 For father and mother 62 Fun and profit in pigeons 430 Goldbricks in your own hackyard 558 Helped or hurt by farm life 300 Help for young folks 750 Hens help boys in college 648 Here is pluck, boys	On the fence	Pear tree, pruning a 592 Pieplant in winter 100 Plowing under vegetable matter 927 Potatoes affected with the black scurf 882 cutting 453, 450 grown from a fertilized soil 347 harvesting 453 healthy and diseased 155 results from treated seed spraying 453 Potato field, C. A. Wood 142 Poultry house, front elavation of 863 Poultry show at M. A. C. 430 Putman, Dwight and Duroc 786 Red Polled bull and cow 244 Re-footing stockings 375 Road building 510, 512 Rural ministers at M. A. C 872 school house remodeled 273 Rye after soy beans 37 Shearing sheep 39 Sheep, flock of 185 Short-course students at M. A. C 64 Shorthorns of McQuillan & Sons 931 Shropshire rams of H. E. Powell 3 Silver fox farming 134, 136 Sleeper, Albert E 138 Soy beans 458 Spraying 893 Spreading lime 73 Strawberry shortcake 315 Strawberry shortcake 315 Surveying tile drains 117 Swimming tank at M. A. C. 340 Tables, types of 58 Tapped maple tree 43 Tractor on Mr. Ackerman's farm 452 Truck loaded with alfalfa 227 Turkey from flock of Mrs. Cramton 213 Turkeys, purebred 144 Water supply for farm 902 Wedding gown 914 Williams, Frank H 766 Wool pooling at farm bureau warehouse 395 Yorkshire, owned by Jas.
market	swarming	Boys and Girls. All one hig family 474 An Indiana girl's pig 517 Blue ribbon farmers 727 Boy and girl helpers 943 Boys' and Girls' chub work 765 covers Michigan 756 Boys' fikes and dislikes 177 Bringing up orphan lambs 682 Bumper the white rabbit 62, 93, 372 Calves given to help clubs 211 Coresco pig club 336 Developing the farm boy 716 Duroc breeders push pig club work 211 Father and son partnership 712 Feeding and caring for cattle 474 For farmers of tomorrow 337 For father and mother 62 Fun and profit in pigeons 430 Goldbricks in your own hackyard 558 Helped or hurt by farm life 300 Help for young folks 750 Hens help boys in college 648 Here is pluck, boys	On the fence	Pear tree, pruning a 392 Pieplant in winter 100 Plowing under vegetable matter 927 Potatoes affected with the black scurf 882 cutting 453, 450 grown from a fertilized soil 347 harvesting 453 healthy and diseased 155 results from treated seed spraying 453 Potato field, C. A. Wood 143 Poultry house, front elavation of 863 Poultry show at M. A. C. 430 Putman, Dwight and Duroc 786 Red Polled bull and cow 244 Re-footing stockings 375 Road building 510, 512 Rural ministers at M. A. C 872 school house remodeled 273 Rye after soy beans 37 Shearing sheep 39 Sheep, flock of 185 Short-course students at M. A. C 64 Shorthorns of McQuillan & Sons 931 Shropshire rams of H. E. Powell 3 Silver fox farming 134, 136 Sleeper, Albert E 138 Soy beans 458 Spraying 893 Spreading lime 73 Strawberry shortcake 315 Surveying tile drains 117 Swimming tank at M. A. C. 340 Tables, types of 58 Tapped maple tree 43 Tractor on Mr. Ackerman's farm 452 Truck loaded with alfalfa 227 Turkey from flock of Mrs. Cramton 213 Turkeys, purebred 144 Water supply for farm 902 Wedding gown 914 Williams, Frank H 766 Wool pooling at farm bureau warehouse 895 Yorkshire, owned by Jas.
market	swarming	Boys and Girls. All one hig family	On the fence	Pear tree, pruning a 592 Pieplant in winter 100 Plowing under vegetable matter 927 Potatoes affected with the black scurf 882 cutting 453, 450 grown from a fertilized soil 347 harvesting 453 healthy and diseased 155 results from treated seed spraying 453 Potato field, C. A. Wood 142 Poultry house, front elavation of 863 Poultry show at M. A. C. 430 Putman, Dwight and Duroc 786 Red Polled bull and cow 244 Re-footing stockings 375 Road building 510, 512 Rural ministers at M. A. C 872 school house remodeled 273 Rye after soy beans 37 Shearing sheep 39 Sheep, flock of 185 Short-course students at M. A. C 64 Shorthorns of McQuillan & Sons 931 Shropshire rams of H. E. Powell 3 Silver fox farming 134, 136 Sleeper, Albert E 138 Soy beans 458 Spraying 893 Spreading lime 73 Strawberry shortcake 315 Strawberry shortcake 315 Surveying tile drains 117 Swimming tank at M. A. C. 340 Tables, types of 58 Tapped maple tree 43 Tractor on Mr. Ackerman's farm 452 Truck loaded with alfalfa 227 Turkey from flock of Mrs. Cramton 213 Turkeys, purebred 144 Water supply for farm 902 Wedding gown 914 Williams, Frank H 766 Wool pooling at farm bureau warehouse 395 Yorkshire, owned by Jas.



THE FISK RUBBER COMPANY

OF NEW YORK

FISK TIRES

TIRE SUNDRIES

CHICOPEE FALLS, MASS.

PLEASE ADDRESS REPLY "ATTENTION OF

TO THE CAR OWNER:

Do you know that we have an unusual (tire that may be of special interest to you?

There are some who do not want a tire of the standard grade and who do not want to go to the cost of a Cord - something between the two. For those we have a truly distinctive tire in the Fisk Red-Top.

This tire is generously oversized, has an extra ply of fabric with an extra heavy tread, all of which gives exceptional strength and endurance. Its attractive color gives it: a distinction which the discriminating buyer likes.

The use of this tire when an overload exists will prove its economy. It is made in the popular sizes only, up to and including 4½". It is the best fabric tire made and its slightly added cost over the standard fabric tire will be money well spent.

Tell your dealer you want to buy a Red-Top if you do not want to go to the expense of a Cord. All dealers will be glad to supply you and our chain of 140 distributing houses assures you of fresh stock from your dealer.

Very truly yours,

Vice President & Gen'l. Manager

EHB:M

Please send me, without charge, the set of art blotters illustrating golf, polo, hunting, boating and one of your Time to Re-tire boy.

I own a (give name) car.

Signed

Address

Dept. 13