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Plant Trees Around the Home

And In Days Yet to Come the Nation Will Benefit—By E. Ryman-Gaillard



A Beautiful Specimen of the Mountain Ash.

MUCH might be said of organized effort to beautify the world in general by the use of trees, but this article will deal with their use around the home buildings only. Be a house ever so perfect in design, imposing in size, and outfitted with every modern improvement it still lacks something until growing things surround it and soften its outlines.

For such work vines and shrubs give what might be called "first aid," but it is the tree that puts the appearance of permanency and homelikeness over the entire place, if rightly used. In selecting trees for use near the house many things must be taken into consideration and a long look ahead taken to get a mental picture of what the full-grown tree will be like in size, form, and habit of growth—root and branch.

On most farms there is desirable space at a distance from the house for fruit and nutbearing trees, but it must not be forgotten that even among the so-called ornamental trees there are some that have undesirable features.

As the desirable features are seen at once, it may be more helpful to mention a few of the undesirable characteristics of the well-known trees. Take the horse chestnut as an example. Admitting its beauty when it unfolds its large palmate leaves; when it is

loaded with upstanding panicles of bloom, and when it shows the bursting shells with the glossy brown nuts just ready to fall we will add to that list of desirable features the fact that no tree gives more perfect shade or a larger circle of it, yet with all these desirable features there are some very undesirable ones to offset them. The fact that the foliage starts very early in the spring has the counterbalancing fault that it falls very early and compels early raking of leaves; the falling nuts and their shells are hard to rake out of the grass, but most annoying of all are the stems that fall later and, being large and very tough, make trou ble with the lawn-mower in thespring. There are other of the ornamental trees of which one might list similar faults.

Maples and elms, though of slower growth, make stately trees of symmetrical form

very desirable as single specimens and their only litter is the falling leaves. Mention of stately trees brings thoughts of the oak but a memory of the sodden mass of leaves to be disposed of in the spring, because their persistent habit holds them on the tree until after snow comes, and the rain gutters on the house filled with acorns and twigs prevents mention of it as desirable near the house.

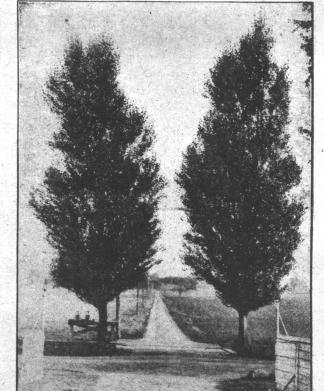
Plant trees around the home, by all means, but be sure that you know their undesirable features as well as their desirable ones, and to do this you must know their habits of root-growth as well as what is above ground. The stately, upright form of the Carolina poplars, coupled with their rapid growth, and the beauty of their ever-rustling foliage tempts one to plant them when quick results are desired, but before planting one must remember the fact that any tree making rapid growth is getting enormous supplies of water from some source. The branches of the tree grow almost straight upward but the roots spread far out in their search for

water and many a well, spring, and sewer has been filled with them, causing damage and expense.

Weeping trees, so-called because of their drooping habit of growth, are desirable in many places and may be used with striking effect when taller trees or those with open space below the branches are not suitable and most of them grow to a size that makes them very ornamental as single specimens on the lawn or as centers to some scheme of massed planting.

In decorative planting color effects must, be taken into consideration and in this respect we find the greatest use for evergreens for, aside from their effectiveness in other ways, their sombre blackness contrasted with the snows of winter is very striking and during the spring and summer flowering trees and shrubs seem doubly beautiful when silhouetted against their darker color. Trees having silvery bark, or those having silver-backed, red, or purple foliage are most striking when so placed that their coloring is intensified by the green of others back

(Continued on page 536).



Two Trim Carolina Poplars Mark the Gateway.



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DETROIT, APRIL 23, 1921

CURRENT COMMENT

Railroad Rates and Business

been advanced to a markets. point which has react.

itable outlet in eastern markets on ac. the price at present available. count of the high transportation charge. Southern fruit and track crops are restricted as to profitable market area by the same cause. And these examples illustrate a very general condition rather than a notable exception. In like manner passenger fares and Pullman charges have been advanced to a point which restricts travel to a marked degree. The truck and the auto local transportation, while industries is occurring altogether too frequently. He was appointed commissioner of suffered a serious handicap. In the agency is required to place the general which office he held through the adwhich served a distant market have meantime the railroads have continued to show big deficits.

which in many cases are more than the records of breeders show that once agencies looking toward the eradicarailroad officials declare the remedy the confidence of a new recruit for this state. ing vigorously resisted by their em- who furnished the original stock. ployes. Before this issue, which is becoming acute, is settled, business is afford to deal honestly with the young- tural problems of the state. likely to be still further hampered by er man but he can, to his own interest, the interruption of distribution.

not appear to be easily found or simply through years of work. Perhaps the applied. But it is apparent that it does most assistance that can be rendered not lie in any Turtner can bear. A general reduction in rates The young farmer who is or intends to Farm Bureau executive committees, to farm implements.—Ex-Kaiser Wilhelm is desirable both as a means of stimukeep live stock should know that while meet in Marquette, April 26, to contact the stock should know that while meet in Marquette, April 26, to contact the stock should know that while meet in Marquette, April 26, to contact the stock should know that while meet in Marquette, April 26, to contact the stock should know that while meet in Marquette, April 26, to contact the stock should know that while meet in Marquette, April 26, to contact the stock should know that while meet in Marquette, April 26, to contact the stock should know that while meet in Marquette, April 26, to contact the stock should know that while meet in Marquette, April 26, to contact the stock should know that while meet in Marquette, April 26, to contact the stock should know that while meet in Marquette, April 26, to contact the stock should know that while meet in Marquette, April 26, to contact the stock should know that while meet in Marquette, April 26, to contact the stock should know that while meet in Marquette, April 26, to contact the stock should know that while meet in Marquette, April 26, to contact the stock should know that while meet in Marquette, April 26, to contact the stock should know that while meet in Marquette, April 26, to contact the stock should know that while meet in Marquette, April 26, to contact the stock should know that while meet in Marquette, April 26, to contact the stock should know that while meet in Marquette, April 26, to contact the stock should know that while meet in Marquette, April 26, to contact the stock should know that while meet in Marquette, April 26, to contact the stock should know that while meet in Marquette, April 26, to contact the stock should know that the stock sho as well as all other classes, even at the gent owner of live stock will greatly to call this meeting was arrived at in water supply.—A record snow storm as well as all other classes, even at the gent owner of live stock will greatly to call this meeting was arrived at in water supply.—A record snow storm as well as all other classes, even at the gent owner of live stock will greatly to call this meeting was arrived at in does damage in fruit sections of the time wages of this class of workmen, advancement if he will displace scrub meeting will be held in the supervistry have been forced to take a big cut and through their associations should ative of each County Farm Bureau exin their labor income. Other workers use legitimate means of inducing young ecutive committee attend. Voting pow-

The Potato Market

have been disappointed in its trend should be exercised that these young a rejection of the League of Nations during recent months. As a result minds retain confidence in the breed. have been disappointed in its trend strend during recent months. As a result minds retain confidence in the breedthere has been an increasing tendency ing business and in the men who are to move the balance of the crop before following it.

Treaty.—The republic of Fahama is concentrating troops along the Porte concentration troops along the the rush of spring work, and a consequent falling of values to a point which COMMISSIONER OF AGRICULTURE. nets the grower from eighteen to thirty cents per bushel, depending on his MR. HERMAN H. HALLIDAY, who location and shipping cost. At these location and shipping cost. At these was appointed last week by Gov to fight crime. It is proposed ultimate-prices the tubers are bringing their ernor Groesbeck as commissioner of ly to have every policeman equipped growers less than the value of the seed agriculture to carry out the provisions from which they were grown, at prices of the administration measure creating which prevailed at planting time last a state department of agriculture, re-

conditions, make for a better late mar- constructive factor in their solution. will serve to prolong the marketing which is located on the old historic a gallon on gasoline. season for the old crop. Dealers have not carried heavy stocks for speculative purposes as is often the case, but have followed a hand-to-mouth policy THAT transporta- in the matter of distribution, owing to tion charges have the general downward tendency of all

On the other hand, the probable deed seriously on the mand is more problematical than is business of the rail- the case under normal conditions. No roads is an established fact. The tre- one can say with any degree of assurmendous advance in freight rates has ance what the outcome will be. Holdmade it unprofitable to ship many com- ing for the late market will be somemodities to distant markets. Michigan thing of a gamble, but the stakes are hay, for example, does not find a prof- not high. The risk is in proportion to

> Playing the Game Square

THE story of how a young farmer of Oakland county rediscently became the couraged with pure-bred live stock

business through the purchase of inat long prices reveals a tragedy that Dearborn, fifty miles from Detroit. at a time when every constructive animal industry by Governor Osborne, business of agriculture on a substan- ministration of four successive govertial basis.

This situation in which the railroads er of pure-bred stock can less afford to mouth epidemic in 1914. His efficient find themselves is undoubtedly due in deal dishonestly, particularly when he administration of, and firm attitude in, large measure to the general business is selling to a young breeder. The be- this work occasioned much favorable depression through which we have ginner if he is not discouraged, will comment and appreciation at the time. been passing in recent months, but it forthwith become a regular customer Since that time his department has is in part due to excessively high rates, of the breeders of his special line, and been actively cooperating with other the traffic can bear. Representative a producer of quality stock has gained tion of hog cholera and tuberculosis in for this situation to be a general re-honest dealing the larger portion of

go even further and counsel from the The remedy for this situation does experience which he has accumulated in is to develop a proper attitude in the be given to make the undertaking suc- says Mr. Weston.—Chase.

Many of the pota- cessful. This effort can very wisely be News of the Week have been holding that an intelligent working knowledge their crop for higher of the fundamental principles of prices are becoming breeding will be had at a time when discouraged as to the they are ready to start in the farming congress.

was appointed last week by Govalizes that he is taking up an entirely market every grower must be his own carefully, studying the problems, which judge. There are some factors of the confront the farmers of Michigan, with States



Herman H. Halladay.

ferior breeding stock of an old breeder Indian trail between Fort Wayne and

nors. His first prominent work on the Of all classes of farmers the breed- commission came during the foot-and-

Past services would indicate that the duction in wages, which program is be-later purchases are made from the man farmers of Michigan have a valuable assistant in "Herm," as he is common-Not only can the established breeder ly called, in the solution of the agricul-

CLOVERLAND BRANCH OF THE FARM BUREAU.

transportation rates. Present rates mind of the beginner—to aid him in sula, has called a meeting of county are in many cases more than the traffic starting with an intelligent viewpoint. agents and representatives of County costs. We believe the result would and work to gain a place in the roll of Michigan State Farm Bureau in upper costs. We believe the result would and work to gain a place in the roll of Michigan State Farm Bureau in upper says seventy-five per cent of Michigan prove profitable to railroad employes out-standing breeders, every intelli- Michigan. It appears that the decision population is served with municipal first cost of a considerable cut in war- enhance his prospects for profits and Lansing on March 26. The Marquette High wages and cheap living costs are stock with animals having type and ors' room at the court house at 11:00 incompatible. The farmers of the coun-good ancestry. Breeders individually a. m. It is desired that one representwill have to take a similar cut or pay men to get into the pure-bred game. er will be confined to farm bureau the penalty in a reaction in the cost of They should furnish whatever aid can members, if this is thought advisable,

Wednesday, April 13.

PRESIDENT HARDING'S message made a favorable impression upon It urged emergency tariff, probable future of the market, as they business. But here even greater care elimination of excess profits tax, and tics announces Canadian wheat crop to be over 263,000,000 bushels; to move this crop will tax the transportation facilities of Canada.—Chicago police department will use wireless telephone with receiving apparatus.

Thursday, April 14.

BRITISH seamen's and firemen's unalizes that he is taking up an entirely of the probable future trend of the new work and will therefore proceed alliance, of which it is a member.

The Soviet Russian government refusers to permit deportees from the United confront the farmers of Michigan, with judge. There are some factors of the confront the farmers of Michigan, with states to enter Russia because they situation which should, under normal the view of making his department a conditions, make for a better late marconstructive factor in their solution.

States to enter Russia because they are radicals.—A judicial investigation of affairs at Marquette prison is planket for the old crop. The southern Mr. Halliday was born on a farm says farmers should build up an organcrop is not large and it is generally near the village of Clinton, Lenawee ization capable of presenting agricultonceded in the trade that these offercounty, fifty-two years ago. His fathings will not be sufficient to supply the er, uncles and brothers were all successful and progressive farmers. He financing export cotton to European cessful and progressive farmers. He financing export cotton to European as early in the season as usual, which is located on the old historic and progressive against a Lansing proposing a tax of one cent

Friday, April 15.

BRITISH miners have agreed to meet D mine owners in eleventh hour par-ley to avert strike.—For the first time since 1914, Minneapolis patent flour has sold at the mills for less than eight dollars per barrel.—New York assembly passes literacy test for voters.—Secretary of Treasury Mellon announces that the treasury department soon will offer \$40,000,000 worth of farm loan bonds at five per cent.—Railway labor board ends national agreements defining working conditions for ments defining working conditions for railway employes.—Seventeen years after saving ship, Robert E. Cox re-ceives United States medal for valor. Saturday, April 16.

STEEL companies announce a reduction in prices; this is expected to renew activity in the steel industry.—By a vote of 269 to 112, the house of representatives passes the emergency tariff bill.—General Pable Gonzales, former provisional president of Mexico has gone into Mexico to start a revolt against the government.—President Harding intends to place envoy in al-lied councils to help fix German debt. The electric trades union and the railway clerks' association called off "sympathy" strike in Great Britain.—
A bill to abolish fraternities and secret societies in public schools was defeated in the house in Lansing.

Sunday, April 17.

SNOWSTORM interferes with tele-NOWSTORM interferes with tele-graph and interurban service in the southern part of state.—Tornado in the south does much property damage and kills about seventy-five people.— Naval experts urge Dutch Harbor, Alaska, for northern Pacific naval base.—President Harding starts "con-science fund" with one dollar received from a man who robbed him twenty from a man who robbed him twenty years ago.—Poland ratifies the peace treaty between Soviet Russia and Ukraine.—Five thousand Chicago public school boys will camp at Camp Roosevelt, Muskegon, this summer.— Michigan industries recover forty-seven per cent in activity from the low ebb of industrial depression.

Monday, April 18.

A LLIES sanction the taking of the Ruhr basin, Germany, and the working of its mines and factories by the French unless Germany agrees to A SSISTANT State Leader of County shun all dealings with Russian Soviet government.—Following reductions in price by the U. S. Steel Corporation, John Deere & Company announces as a second of the price of the pric ten per cent reduction in the price of

Tuesday, April 19.

RURAL prohibitionists swamp liberals of cities and towns in liquor vote in the Province of Ontario, Canada.—The United States and Japan are both firm in their attitudes regarding the Island of Yap.—Dr. Sun Yat Sen, "President of the Chinese Republic," decides to quit.

Cheap Grain and Pasture for Hogs

By A. L. Bibbins, Extension Specialist, M. A. C.

bringing in revenue from such grain. the field.

Experience has shown that the feedmanure. The general vigor and health eat the roots. of the hogs must be taken into considdo as well when confined therein as tings of hay. when given a clean field in which to feed and roam.

The Illinois Experiment Station states as follows:

"Since hogs on forage are more healthy and vigorous they have greater appetites and consequently will consume greater amounts of feed than those in dry lots or small pens. "The full feeding of hogs on pasture will fit animals for market at a younger age than will almost any other system of feeding."

benefit from a good pasture. Being us of these. When they have quite any time up to August. larg v and having a greater capacity well covered the area the equipment Drilled or broadcasted in the early sows maintain a rugged and healthy constitution and consequently are more efficient in the breeding herd than if closely confined.

There are quite a few forage crops available for hog pasture. No one can be termed the best for all farms, but ditions and select that one deemed the best for his purposes.

Alfalfa.

size and the grain ration used. It season. comes on early in the spring and lasts throughout the summer, producing a is very well liked by hogs.

HIS spring finds a great many It is hardly possible to pasture the litters and also for fall pasture as it together, using one bushel of oats with Michigan farmers with a surplus alfalfa evenly because in the spring furnishes forage at a time when succu- five pounds of rape.

pen is not usually the most sanitary way as to efficiently produce pork and more grain. place on the farm and that hogs do not at the same time obtain two good cut-

of grain which, if sold as "cash the alfalfa makes such a rapid growth lent feeds are generally lacking. Mis- The advantage of this practice is ble. Quite a few farmers have been the pigs having a greater capacity may advantage of relying upon blue-grass alone. interviewed who feel that one may keep it down if there be a balancing pasture is that during the hot and dry wisely consider hogs as a means of of the number of hogs and the size of period of July and August there is stations indicate that rape seeded quite likely to be a shortage of vegeta- alone is of equal feeding value to the The large pigs should be ringed to tion. This may be taken care of by mixture. ing of grain to hogs in the dry lot is prevent them rooting out the plants having peas and oats, rape, or some rather an expensive and unsatisfactory which they might otherwise do, espe- similar crop ready to turn the hogs in tion obtained cheaper and more rapid method of producing pork. In the first cially if the pasture should become a on during such a time and thus give gains from the rape alone than from place such a procedure requires more little short during the dry weather, as the blue-grass pasture a rest. During the mixture.

labor and causes a loss of valuable then the hogs are likely to dig out and its growing season blue-grass will car-A few farmers have successfully ver, or rape, but does not produce as oats to provide a pasture after the eration. We must admit that the pig managed their alfalfa fields in such a many pounds of pork and requires oats are removed for grain. This works Dwarf Essex Rape. Rape is probably the greatest gen- oats. By placing colony houses, watering eral utility forage for hogs. It is an



and so on throughout the season.

Red Clover.

Blue-grass.

large amount of feed to the acre that forage crops and furnishes feed for a good start. long time. It is excellent for the spring

troughs and self-feeders in the field excellent emergency crop which can The breeding herd receives great the hogs will pasture in the near radi- be sown real early in the spring or at enty days.

so on across the field. The area pas- pounds to the acre, and if properly gives a good pasture up to the time tured makes additional growth and lat- managed will provide pasture until that oats start heading out and then er may be cut for hay. After allowing late in the fall, carrying fifteen to they are woody. One may make three for another growth to be produced the eighteen shotes for one hundred days, different seedings at intervals of about hogs and equipment are moved back, feeding about two pounds of barley per three weeks apart and thus provide hundredweight per day. Some grow- suitable pasture for the entire sum-Red or June clover is widely used ings of rape at intervals of three fourteen hogs about seventy-five days, the number and variety of crops avail- for hog pasture and although it does weeks and thus have a good growth of feeding about two pounds of barley per able allows one to study his own con- not afford a permanent pasture, it fur- succulent forage throughout the sea- hog per day. nishes an abundance of palatable feed son. In the corn belt it is often the for one season. Usually the first practice to put in rape at the last culgrowth is cut for hay and the second tivation of corn with the aim in view plus one and one-half bushels of peas Alfalfa may be managed to provide used for the hogs-an acre carrying of having a green forage crop to bal- are sown with grain drill. Turn hogs in pasturage for about one hundred and ten to sixteen shotes. This does not ance the ration when the corn is hog-during August and early September, thirty days, carrying ten to twenty furnish as late a fall pasture as alfalfa ged off. The success of this venture and it will carry them up to the time shotes to the acre, depending upon the nor as much succulence during the dry quite largely depends upon the July that corn is available for fattening pur-This is one of the best and earliest and give the young rape seedlings a upon good pasture for the next thirty

Many prefer seeding oats and rape another pasture, such as rape, ready

grain" must go at considerable sacri- and the pigs being small are unable to souri Experiment Station demonstrat- that the oats make a quicker growth fice. It behooves us to seriously con- keep it down. Careful management can ed that with hogs bringing eight cents than the rape, with the result that sider methods of marketing this grain take care of this problem. The first that an acre produced on an average pasture is available a week to ten days in the most economical manner possi- growth can be cut for hay and then of about \$26 worth of pork. The dis- earlier than when the rape is put in

Experiments conducted by several

The Pennsylvania Experiment Sta-

Not a few corn belt farmers put in ry about as many pigs as alfalfa, clo- two to three pounds of rape in the quite satisfactorily unless the ground is so rich as to cause lodging of the

> In wet and hot weather, such as heavy morning dews followed by a hot sun, hogs may sun-scald and be irritated by the rough edges of the rape leaves. This is apparently more likely to occur with white pigs or those having white spots.

Barley.

Two bushels per acre gives a good pasture in a short time. Some object to barley pasture because it grows so fast in a short time that it becomes woody and hogs don't eat it. It should carry fourteen shotes for sixty to sev-

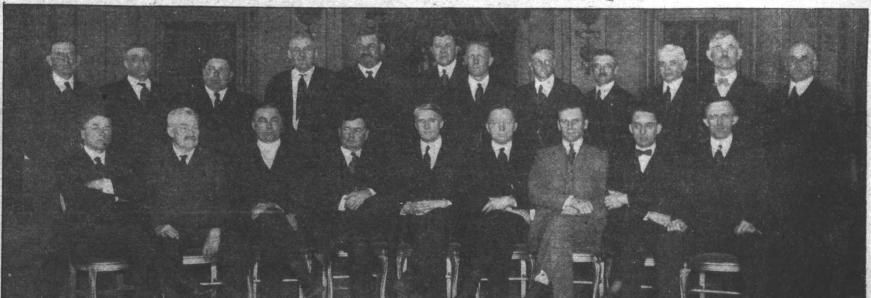
Oats.

they can handle a larger amount of may be moved on to a new area and spring at the rate of five to eight one-half to three bushels per acre Oats seeded at the rate of two and ers start in the spring and make seed- mer, An acre should carry twelve to

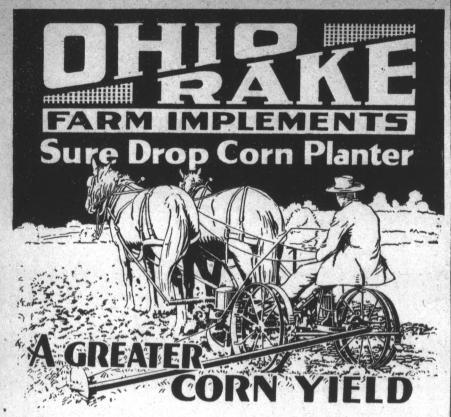
Canada Field Peas.

One and one-half bushels of oats and August rainfall for there must be poses. It is possible to pasture fifty enough moisture to germinate the seed to sixty days after seeding and depend days. In such a case one should have

Newly Elected Directors of the U.S. Grain Growers, Incorporated



Front Row, Left to Right:—H. W. Avery, Kansas; James Nicol, Michigan; W. J. Eckhart, Illinois, P. E. Donnell, Missouri; J. R. Howard, President of the American Farm Bureau Federation, Iowa; C. H. Gustafson, Lincoln, Nebraska; A. L. Middleton, Iowa; F. M. Myers, Iowa; J. M. Anderson, St. Paul, Minn. Back Row, Left to Right:—J. D. Pancake, Colorado; F. W. Schilling, Minn.; J. K. Mason, Indiana;; U. L. Burdick, North Dakota; H. W. Coit, Texas; Geo. C. Jewett, Washington; R. M. Clark, Illinois; V. H. Smith, Oregon; R. C. O'Brecht, Kansas; W. W. Robinson, Ohio; J. T. Belk, South Dakota; Fred A. Mudge, Illinois.



THE loss of one ear from every second hill is a loss of 15½ bushels to the acre—one ear from every third hill is a loss of 10½ bushels per acre. What you want then is a corn planter that will not miss—it must plant the desired number of grains each time without scattering or breaking them. A cracked or broken kernel will not grow.

You can't see the grains when planted, in row or hill at exactly the spacing you want therefore, you want a planter which you and will not scatter nor break the corn. You know has proven its success. You don't never have to thin out after planting with a want to experiment.

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It plants just the number of grains you want

Sure-Drop.

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for the hogs when they come off the oats and peas.

of the corn belt. Probably the greatest of caution usually being sufficient to feeding value from this crop is to be curb such practices. The farmers behad when it is put in with corn to be lieve that they have the power to

pounds of gain was highest in the case ject to the same penalties as dealers. of barley pasture, the cost of which The city ordinance governing the \$50.36, and rape \$39.95.

to utilize clover and rape, peas and mer .- M. oats, singly or in a combination, alternating from one to another and thus lessen the labor cost and apparently increase the production of pork.

DAIRYMEN OPERATING MILK PLANT.

DAIRYMEN in the vicinity of Owosso are trying their hand at operating their own milk plant. With the closing of the Owosso plant of the Detroit Creamery Company, producers of approximately 50,000 pounds of milk in this section were left without a market. The creamery company announced that it could not continue to operate the plant with no outlet for skimmilk. They had on hand a large amount of skim-milk powder for which there was no sale, and the health authorities had refused to let them dump the skim-milk in the river.

Through the efforts of M. F. Crowe, the regular force.

At a meeting of producers and haul- significant findings. ers held the first of the month, the ume of milk the operating cost can be waters are being determined. The tokept low, and the farmers receive as tal mineral matter present, as well as hundred pounds than when selling out- plant food, is being found, while physiright. The milk is bought on a but- cal investigations are in progress. ter-fat basis, and the committee in charge is receiving eight cents a pound of fertilizer on these areas will doubtabove local market quotations.-M.

FLINT MUNICIPAL MARKET A BIG good land. Analysis shows that many SUCCESS.

THE proposition recently made to ported from other stations, as well as restrict or regulate sales to confrom European countries.—H. sumers at the new Flint Municipal Market, met with the only logical out come, namely, a victory for the people who brought their opinion to bear with such force that their attitude tothe reach of most persons.

Only occasionally has a farmer tried to squeeze a little more than the top-Soy-beans are used in many sections notch price from his customers, a word maintain the popularity of this big The Montana Experiment Station market, by keeping their ideas of valhas conducted extensive investigations ues within reason and giving the peoin pasturing hogs, using two pounds of ple the benefit of low-handling charges. barley per hundred live weight per day. They are also lending a hand to the They report that rape and oats require market master in rounding up an! 3.14 pounds of grain for each pound of eliminating from the market hucksters gain, while rape alone requires 2.43 and dealers who buy the products they pounds, medium clover 2.64, and al- have to sell. The farmers themselves falfa 2.1 pounds. The combined cost are not permitted to purchase products of grain and pasture for one hundred for resale on the market, and are sub-

was \$13.60; clover, \$10.80; rape, \$9.93, market specifies that fresh meat may and alfalfa, \$8.00. After deducting the be sold between October 15 and April cost of the grain eaten the alfalfa gave 1. In the absence of facilities for a return of \$92.87 per acre, clover handling meats under warm weather conditions, and very few, if any, farm-From the above we might conclude ers have proper means for cooling that it pays to provide ourselves with meat after slaughtering, meat sales good forage crop for hogs, especially ended on the first day of the month. where grain is rather abundant and Dressed meat, unless placed under recheap, alfalfa properly managed being frigeration immediately, is subject to the most profitable. However, if such rapid deterioration and infection by is not available one may outline a plan fites and other sources during the sum-

IT PAYS TO RAISE PURE-BRED HOGS.

MR. C. L. SHAFLEY & SON, of Clinton county, recently delivered a pure-bred Duroc-Jersey to the pens at St. Johns, which at the age of one year and ten months weighed 810 pounds. During the fattening period of forty-seven days a gain of 210 pounds was made, or nearly four and one-half pounds a day. The big fellow represents an absolutely corn-fed animal, no other form of grain being used in his ration. Mr. Shafley is an enthusiast of the Durocs and takes great pride in their growth.-M.

TO CLASSIFY OUR MUCK LANDS.

M UCK lands of Michigan will be classified so as to permit systempresident of the Milk Producers' Asso. atic study of methods of reclamation, ciation, permission was obtained to tillage and the use of lime and fertilizempty any surplus skim-milk in the ers. A program recently announced by river, and arrangements were made Dr. M. M. McCool, head of the soils dewith the manager of the milk plant, partment at M. A. C., calls for the inwhereby the farmers would temporar vestigation of vast areas of muck land ily operate the plant with the help of in the state. The project is already under way and early reports indicate

"The nature of the sub-soil, as well haulers agreed to return the skim-milk as the kind of surface material, is from each farmer's shipment without being considered," says Dr. McCool. extra charge. Everything considered, This means determining the depth of the arrangements are very satisfac- the sub-soil and whether it is sand. tory, according to Mr. Crowe who is clay or marl. The importance of knowin close touch with the situation. The ing the nature of the lower layers has amount of milk has increased from less long been recognized by practical men. than 20,000 pounds on the first day to Those carrying a high percentage of over 30,000 pounds; and with this vol- lime and the lime content of seepage great, if not greater, returns per one the amount of several elements of

Adequate drainage and proper use less increase the valuation of Michigan greatly and open up large sections of of these deposits of muck land in Michigan compare favorably with those re-

TAKES OVER WAREHOUSE.

THE Isabella County Farm Bureau took possession of the E. B. Meulward the plan can not be misunder- ler chicory plant last Monday to use stood. They have indicated beyond as a warehouse for storage of farmers' doubt their appreciation of the opera- supplies and for the storage of wool in tion of the market thus far; and the connection with the wool department farmers have contributed a fair share of the State Farm Bureau, Mr. Hazeltoward sustaining the enterprise by wood was in Lansing recently where furnishing the market with fresh prod- he made arrangements for Mt. Pleasucts and selling them at prices within ant warehouse to become the wool assembling point for the county.

Better Alfalfa Crops-By W.A. Freehoff

LFALFA is the standard by system was much larger, deeper, and A which all forage crops are being more widely developed. judged. Unfortunately, in many Inasmuch as the hardier varieties sections of the country, it is hard to are giving a larger yield, the proper

Old (1) and Young (2) Alfalfa Roots.

it from winter-killing. So valuable is alfalfa, however, that progressive farmers make every effort to establish it in their cropping system.

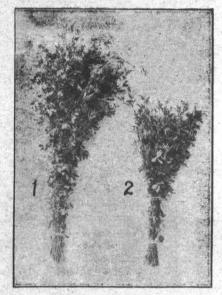
Hardiness is one of the determining factors in the more northerly regions. The Wisconsin Experiment Station has been making some special studies in regard to hardiness, and reports governing a six-year period are now available. For the six years the plots of Grimm alfalfa yielded from 20.8 tons to 22.5 tons per acre, while plots of common or unselected seed yielded only from 13.1 tons to 18.7 tons per acre.

Alfalfa, unlike clover and other legumes, requires a long period of development before it comes into full bearing. It takes time for the root system to grow and become established, and until the root system has reached some degree of maturity, a full crop is not secured.

It is at once apparent, therefore, that alfalfa fits a great deal better into a long crop rotation, rather than a short in check. With the customary amount

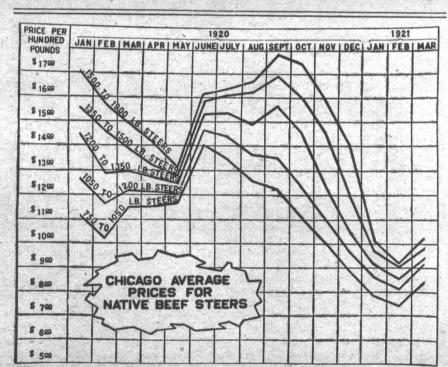
get the crop established, or to prevent selectoin of seed is of the greatest importance. In Wisconsin about three hundred and sixty plots were sown in 1920, and studies upon these varieties have resulted in the discovery of a method of distinguishing genuine from non-genuine Grimm, Baltic, Cossack varieties the first season alfalfa is grown. Genuine hardy varieties show a dormancy of growth in fall which is strikingly different from the appearance of Montana or Kansas strains of common alfalfa. Dormancy in the hardy varieties sets in at an early date, while the other varieties continue to grow, when rains are frequent.

The growth of weeds where alfalfa has been planted without a nurse crop is a serious menace to the life of the crop the following year. Farmers have been afraid to clip too closely, in fear of winter-killing, but special studies show that close cutting gives better control of weed growth without seriously injuring the alfalfa, than where five inches was left. Close cutting kept practically all the weed growth



Cuttings from Old (1) and Young (2) Plants.

one. Comparison between a three-year- of moisture a new, healthy, vigorous old plot and a one-year-old plot, for alfalfa growth came on, while in those two cuttings, showed that the older plots where the alfalfa was clipped field was nine inches taller for both long, foxtail grew rapidly and headed cuttings, and also yielded one and one- out so that the field had to be cut half tons more per acre. The root again in August to save the alfalfa.



THIS chart shows how the market's attitude toward weight in fat steers varies at different seasons of the year. Heavy cattle always average varies at different seasons of the year. Heavy cattle always average higher in price than light weights, principally because they are higher in finish, although the top, price on light weights may be as high as, or higher, than for heavy steers. April, May and June are the months when light steers sell to best advantage, while September, October and November are the months when heavy steers bring the biggest premium.



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It's a Repeater

A MAN buys MULE-HIDE Roofing the first time because his dealer recommends it, or he likes its looks, or because his neighbor has some.

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MULE-HIDE is an unusual combination of good looks and durability, and its service record

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is no exaggeration as thousands of users will testify.

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MULE-HIDE Smooth Finished Roofing. MULE-HIDE Slate-Kote Roofing furnished in Green and Red Slate.

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MULE-HIDE Individual Asphalt Shingles in Standard and Double-Thick Weights furnished in Green and Red Slate.

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MANUFACTURERS

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The business farmer of today not only believes in adequate fire protection—he insists upon it.

Great losses incurred through farm fires in the past have warned the thinking farmer to inventory his house, house-hold goods, barns, and other buildings, enabling him to properly determine values for basing adequate insurance. He knows that thorough protection against fire menace means full fire insurance, because city fire departments avail him nothing.

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The Peninsular Fire Insurance Company—Michigan's big fire Underwriter—solves farmer's insurance problems by offering you regular city property protection. Your buildings are appraised according to location, condition and general improvement and Peninsular Policies covering, do not in any way interfere with other fire insurance carried. Many business farmers, from experience, have found underprotection far too costly and today insist on full security against fire.

Without obligation on your part, just drop our Farm Department a card and learn about the Peninsular Way, which includes expert advice on CROP protection.

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Every farmer who has a tractor of 18 H. P. or over can insure himself against loss of much or all of his yearly harvest—from bad weather and inability to get a machine when his grain is ready—by owning one of these little threshers.

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Write for complete description and speci-cations—sent free upon request.

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Compare This Construction Get Our Special Low Prices And Our Easy Terms ISILAGE CUTTER Cheapest to Own Easiest to Operate The E. W. ROSS CO SPRINGFIELD, OHIO



FARM BUREAU NEWS

BENEFIT POTATO MEN.

to shippers of Wisconsin and Min. county agent. nesota have enjoyed over Michigan producers, when shipping into territerstate commerce commission.

At present Minnesota farmers are Cadillac, the Michigan Potato Growers' cents, while the rate from Cadillac is tive before the manufacturer. forty and one-half cents. The propostion of the northwest, sought by the Bureau sugar beet growers with their commerce commission, would increase made the growers an additional \$2,000. their rate on potatoes from two to four 000 return on a crop far less in tonfour and a half cents to Minnesota age Michigan crop. It provides \$6.45 points, the Cadillac rates remaining per ton for beets when the wholesale The discrimination against the grow- weight. For each \$1.00 increase in the ers in Michigan, so long borne by them, wholesale price of sugar the contract would thus be removed.

ELEVATOR EXCHANGE SAVES MONEY.

FARM bureau members selling their wheat and rye through the farm bureau elevator exchange during the month of February received a premium which averaged three and a half cents per bushel throughout the month, says the elevator exchange, which has just made public its actual daily sales figures for that period as against the daily bids of five leading grain jobbers of the country.

el of grain sold through the exchange month of February brought an average of three and a half cents above competitors' prices.

Seventy-nine elevators are now affiliated with the farm bureau elevator most stopped shipments into Michigan. exchange. Evidence of the general attitude of cooperative associations keting Association of Brunswick.

from incurring occasional losses.

SUGAR BEET CONTRACTS.

MARKED preference on the part farm bureau. of the state is quite evident, says C. labor charges. E. Ackerman, general manager of the association, in commenting upon the sociation official, said early in April torney in the United States.

CHANGE IN FREIGHT RATES TO that 100,000 acres had been signed up. Eighty per cent of the growers in Allegan county signed growers' con-FREIGHT rate advantages that pota. tracts, according to Alfred Bentall,

The Sugar Beet Growers' Association is sorting all contracts on hand, tory east of the Mississippi river, will according to the different factories in abolished when the proposed the state. These contracts will be offreight rates increase for railroads of fered to the factories. In case they the northwest is approved by the in are refused as now written and a reasonable offer is made in the way of a change, it will probably be referred able to ship potatoes to the Cincinnati back to the individual grower for his district at from two to six cents a hun- acceptance or his rejection. The asdredweight less than the rate from sociation officials are urging their growers to stand fast if they are to Exchange says. Rates from Minnesota win. The growers' contract makes the to Cincinnati are thirty-four and a half association, the growers' representa-

The association contract is based uped rate increase to growers of that sec. on that made by the Utah-Idaho Farm carriers and now before the interstate factories. That contract is said to have cents above Michigan rates, or forty. nage and sugar content than the averthe same, or forty and one-half cents. Price of sugar is \$5.00 a hundred adds \$1.29 per ton. Factories are said to be offering \$7.00 beets on the basis of \$6.00 sugar, with an increase of \$1.00 for each \$1.00 increase in the wholesale price of sugar. The association contract would bring the grower \$7.74 for \$6.00 sugar.

SELLS HIGH-TESTING PHOS-PHATES.

BECAUSE of what farmers consider almost prohibitive freight rates, but 50,000 tons of acid phosphate fertilizer of the 125,000 tons said by the United States Department of Agriculture to be the normal spring require-The statement, says the elevator ex-ment of Michigan, have been applied change, does not mean that every bush- to the farms of this state, according to the State Farm Bureau Traffic Departis going to save that much for the ment. The department of agriculture farmer, but it does mean that every states further that the application of bushel sold by the exchange during the acid phosphate is decidedly beneficial and results in increased yields. However, freight rates of \$7.00 to \$8.00 a ton on acid phosphate from Tennessee, the nearest source of supply, has al-

The State Farm Bureau, recognizing the situation, has been assisting its throughout the state is shown by the members to solve the problem for fact that elevators are joining up ev- some time past. The farm bureau methery week. The latest to affiliate with od included the taking over for Michthe exchange is the Tri-County Mar- igan the state's allotment of a western-made treble super-phosphate-L. E. Osmer, one of the best known forty-five and a half per cent available grain salesmen of the state, now man-phosphoric acid as against the sixteen ager of the elevator exchange, believes per cent available phosphoric acid said that the worst of the heavy decline in to be carried by ordinary phosphate grain prices is over and that from now and disposing of it through its puron business can move to better advan- chasing department at prices the farmtage, but that it is impossible to keep ers are said to consider right. Freight rates on carlots are prepaid and half the rate on less than carlots is prepaid, through an arrangement with the manufacturer of the phosphate, says the

of Michigan's twelve thousand The farm bureau points out further sugar beet growers for the contract that with the treble super-phosphate drawn up and presented by the Sugar about three times as strong as the or-Beet Growers' Association over the dinary phosphate, the farmer saves contract offered by the sugar factories two-thirds of the ordinary haulage and

Vermont Farm Bureau Federation campaign which closed April 16. Quite has enlisted the aid of Clifford Thorne. a deluge of signed contracts was re-traffic specialist of the American Farm ported at the state office in Durand Bureau Federation, to fight a proposed during the closing days of the cam- ten per cent increase in all freight paign. Final figures will probably be rates by the railroads of New England. released at the close of the State Farm At a meeting in Boston, prominent of-Bureau Beet Growers' Association ficials of the railroads are credited meeting to be held at Lansing this with saying that in their estimation week. T. C. Price, of Saginaw, an as- Mr. Thorne is the ablest railroad at-

They Have Selected Threaded Rubber

Why did the builders of 174 motor cars and trucks select Willard Batteries with Threaded Rubber Insulation as equipment on their product?

First— because many years of actual service on thousands of cars have proved that Threaded Rubber Insulation outlasts the battery plates.

Second—because they know that every piece of Threaded Rubber Insulation is exactly like every other piece.

Third—because they know that rubber is the most satisfactory insulating material, and that Threaded Rubber Insulation is the most practical form of rubber for starting and lighting batteries.

Pick out the dealer nearest you, listed below, and ask him to tell you why a Willard Threaded Rubber Battery on your car will save you money.

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Save Your Grain Profits

IT is the last few bushels you get from an acre that give you a profit. You can easily lose those profit-making bushels by shelling out or sprouting after the grain is ripe.

will protect you. You can thresh when your grain is just right and save and sell all of it. Your tractor supplies the power. Your own help does the work. You need not exchange labor at inconvenient times. Your wife has no big threshing crew to feed.

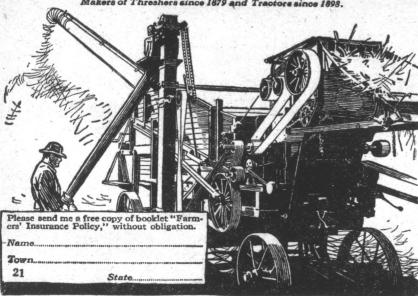
The grain you save—and the threshing bills—soon pay for your Huber Jr., if you thresh for a few of your neighbors the machine should pay for itself the first year.

The Prices are attractive. Terms if desired.

This ad may not appear again, so fill out the coupon now!

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CANADIAN BRANCH: Brandon, Man.
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He Turned the Corner-

The man in the fog thought he was lost, but he turned the corner — there was his own home!

To many, troubled with disturbed nerves and digestion due to coffee drinking, help has seemed a long way off, but they found in

POSTUM CEREAL

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a delicious, satisfying table drink that makes for health and comfort.

There's a Reason

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News From Cloverland

INSTITUTES IN FULL SWING.

extend from April 18 to 27, and the in. four months' period, April to July. stitutes will be conducted by Messrs. Waldron, Kettunen, Putnam, Miller PROGRAM FOR THE CONTROL OF McMillan and Wells.

MUCH LAND CLEARING PLANNED THE commissioner of Agriculture of FOR.

A GENT GUNDERSON, of Gogebic county, saved his farmers \$3,450 on TNT for land clearing, last January, he informs us, but can get no County Agent Geismar, of Houghton county, has distributed some 30,000 pounds of TNT and has requests for 6,000 pounds in addition, but is interesting to note that the commishaving difficulty in getting further supplies of this explosive.

reau has also secured a large carload sold to members at about twelve cents per pound. Inasmuch as the prices of down, the bureau considers this a favorable time for land-clearing. It is pro- what damage is done, after which posed to carry on a farm-clearing dem- game laws in that state can, if it aponstration in this territory later, involving the use of land-clearing machinery and explosives. After July 1, looking to the eradication of the pests. a general land-clearing campaign under expert direction, will be put on in the upper peninsula.

HELPS TO SELL GOOD COWS.

DOES cow-testing pay? is the question asked in the News Letter of Gogebic county. This letter points to a sale of a grade Guernsey cow for \$150 by one of the members of this association, the price being paid on the showing of the cow's record pre- TESTS CORN AND SUNFLOWERS. served on the books of the Cow-testing association. This is by no means an isolated instance. The records of individual cows belonging in the associaso far as production is concerned.

MICHIGAN'S SUNSHINE.

THE upper peninsula is supposed to have less sunshine on the average than the lower peninsula. Mr. C. F. Schneider, Meteorologist of the United States Weather Bureau, Grand Rapids, has prepared a table showing the actual amount of sunshine for stations having sunshine recorders for the past ten years. Grouping these stations separately for the two peninsulas, Mr. Schneider finds the ten-year average for the upper peninsula to be, in Januninsula, 86.4 hours. For February the figures are 128.5 and 119.4 hours respectively for the upper and lower pe- THERE are six hundred and sixty-ninsulas. In March, the upper penin- one standard schools in Michigan, figures are 264.4 and 263.2. In June, partment.

they are 272.8 and 292. In July, they are 312.4 and 309.9. August had 247.3 MR. J. W. WESTON, assistant state and 268.7 hours of sunshine in the leader of county agents for the northern and southern peninsulas. Sepupper peninsula, has his farmers' in tember had 183.6 and 213 hours, as stitutes well under way. It is neces- the days become shorter more definitesary to arrange the dates of these so ly in the northern latitudes of the as to permit farmers who work in the state. October shows 130 and 154.2 woods when the snow is on the ground hours of sunshine in the two sections, to attend, and yet not too late so as while November's figures are 71.9 and to interfere with spring farm work. Be. 95.8 respectively. The year closed with tween April 18 and 28, institutes will December's showing of sunshine in be held in Baraga county, and will be north Michigan at 73.2, while it was conducted by Messrs. Putnam, Wal. 72.2 for the southern part of Michigan. dron, Kettunen and Wells. On April Mr. Schneider points out that there is 22-23, Mr. Wells will hold institutes in more sunshine in the upper peninsula Delta county, on April 30 in Dickinson in May and July, and somewhat more county. The Marquette county dates sunshine in northern Michigan in the

PREDATORY ANIMALS.

Minnesota, in a letter to the Upper Peninsula Development Bureau, expresses doubt that stock is killed by wolves and coyotes in that state. There are small poultry losses but deer are the chief sufferers, says the commissioner. At a time when Michigan is considering abolishing bounties for the destruction of predatory animals, it is sioner of agriculture in Minnesota regards the bounties in that state as too low to get results. The commissioner The Menominee County Farm Bu- is certain that Minnesota will readily cooperate with Michigan and Wisconof government TNT, which is being sin to check the increase of predatory animals. During the ensuing two years we are assured that the Minnesota farm products and farm wages are Game and Fish Department will undertake an investigation to determine just pears desirable, be made to conform to such laws in Wisconsin and Michigan

As for bounties in Michigan, Auditor-General O. B. Fuller reports an increase from \$10,160 in 1917, to \$54,713 in 1920, while from July 1, 1920, to March 31, 1921, the amount paid out in animal bounties in this state is \$134,-363.78, and what have we got to show for it? We are now holding schools of instruction for special deputies who are to be set definitely to work to exterminate the pests.

A GENT GUNDERSON has sent out a questionnaire to ascertain the views of Gogebic farmers in regard to tion shows the prospective purchaser the relative values of several types of just what he is getting by his purchase corn and of sunflowers for ensilage. Among the corns, Wisconsin No. 8 and No. 25, and Minnesota No. 13, have been tried out extensively and each has its protagonists. It is stated that Wisconsin No. 8 beats No. 25 for foliage, but is slower to mature the ear. Several farmers report adversely as to sunflowers, but Mr. Gunderson advises giving them further trial. He points to the heavy tonnage of sunflowers grown per acre, their frost-resisting qualities, their splendid feeding value, their palatability and their ability to put meat on stock and give them a sleek, shining coat.

ary, 88.8 hours, and for the lower pe. STANDARD SCHOOLS IN CLOVER. LAND.

sula had 195.4, and the lower peninsula reports the Department of Public In-196.3 hours. In April as the days be struction, and of these seventy-six are come definitely longer, the upper pe- in the upper peninsula. Such schools ninsula had 216.4, while the lower pe- are constructed in accordance with ninsula had 204.6 hours. In May the plans and rules approved by this de-

Mention The Michigan Farmer When Writing to Advertisers



The appeal of a modern bathroom is universal. To have one is to possess a constant source of health and comfort—to lack one is to miss more than you realize. It deserves your careful consideration in the improving of your present home or in the building of a new one.

Better bathrooms make healthier homes.

Write for copy of catalogue "Standard" Plumbing Fixtures for the Farm. It is illustrated in colors, shows complete bathrooms and fixtures, as well as model kitchen and laundry.

Standard Sanitary Mfg. Co., Pittsburgh

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Service at "Standard" Branches In the cities marked (*) are carried complete lines of Plumbing and Heating Supplies, also Farm Water Supply Systems. Write or call on nearest branch.

Paint Now

BY M. M. WARD.

FARM building covered with a A FARM building covered and good coat of paint is worth more than if it was unpainted. It will last longer, it will look better, it will sell for more. Paint, therefore, is an investment, not an expense. Yet twentyfour per cent of us use no paint at all.

Paint is used on farm machinery for two reasons: First, to protect it from rust. Second, it makes it sell better, (because it looks better). These facts are fairly well recognized, as sixtyseven per cent of us paint our farm implements and double their iffe.

What, then, is the cost of painting? And why is it we do not paint oftener?

We believe that the labor problem is at the bottom of the question: "To paint or not to paint?" A painting job consists of one-third paint and twothirds labor. But where shall we get

A gallon of paint will cover two hundred and fifty to three hundred and fifty square feet-two coats. That is, a double coat of paint ten feet wide and twenty-five to thirty-five feet long.

It costs you \$2.25 or less; perhaps. If you have it done by a professional it will cost about \$4.50 for labor.

Half of us have our own painting done. The other half do it in our spare time. Some of us paint in the spring-about twenty-five per cent, another twenty-five per cent in the summer, another twenty-five per cent in the fall. The rest of us paint as we get a chance or not at all.

A Michigan banker says the increase loan value on painted buildings is twenty-two per cent. It can also, no doubt, be proven that no part of a building brings a better return for the money invested than does the paint. Some claim, with good reason, that an investment in paint pays four and a half per cent dividend-about the same as a government bond.

Let us use good paint, for the paint is only one-third of the cost. A good paint will last five, seven or even ten or fifteen years, but a poor paint will be gone in three. The better the paint you spread, the farther you spread your labor cost.

There's no place like home to use paint. Paint now-now is always the best time to paint.

PLANT TREES AROUND THE HOME.

(Continued from first page).

of them. When selecting trees for limited space their utility must be considered as well as their beauty and, fortunately, most fruit trees are strikingly beautiful when in bloom; have fine foliage and are not less attractive when laden with fruit, the only objectionable feature about them being the muss made by the fruit that falls.

Every farm should have a variety of nut-bearing trees near enough to the house to have their beauty seem a part of the home place but not so placed that the falling nuts can be a menace to those who might step on the nuts that fall.

The subject is too broad for more than mere suggestions and special problems must be left to be worked out as they affect different locations, but one important thing to be kept in mind is the size to which trees grow. Do not plant a tree where it will obstruct the view and have to be cut down when full-grown.

The merits of spring or fall planting are often argued over but there is little difference in results if the holes are dug large enough to permit spreading of the roots; fine, rich earth filled in; plenty of water given (if the season is dry), and the tops carefully braced against winds that would by swaying the tops keep the roots loose in the soil.

McCormick Deering Milwaukee



Now—as to Harvest Time!

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THE BINDERS of the nation must come out at harvest time and transform a billowing acreage into a great stubble field ready for the plow. This is a necessity of the near future and every individual farmer must be ready with men and machines to save all the yield of his own fields. Will your present equipment do the right thing for you? We call to your attention the standard binders of the nation.

McCormick · Deering · Milwaukee

are time-tried names, favorably known wherever there is agriculture. Grain binders with these familiar names will demonstrate again that nearly ninety years of harvesting machine development and satisfactory service in the fields of the world stand behind them.

Timely repairs may be your solution for this harvest, but to limp through the season with machines that are truly outworn will prove disastrous. No farmer can afford to run a binder that has served too many years, nor can he practice true economy with a small, inadequate machine if his acreage and power equipment demand an 8-foot binder.

As harvest time approaches, take careful account of your equipment needs, then see the International dealer. He has McCormick, Deering and Milwaukee - the binders that are guarantees of high quality and operating efficiency.

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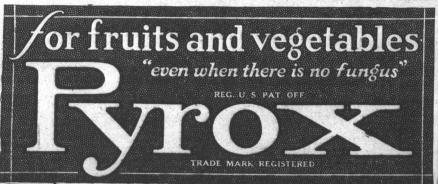
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RIGHT now is the time-to get your KWIK-MIX Concrete Mixer—Special Easy-Payment-Offer and reduced prices for this month only. Before you buy any concrete mixer or start mixing with a shovel, let me send you the deeful KWIK-MIX Concrete Mixer on 30 days' free trial.

st yourself on latest, most up-to-date mixer before you go ahead. Don't take biling a job with hand-mixed concrete. Get a KWIK-MIX and be sure of a perfores time, labor, contractors' profits—pays for itself on first job.

The original reverse-action mixer—loads from one side—close up to pile of n finished mixture other side into wheel-barrow or directly into forms. This new improvement saves a great amount of time and labor—yet kwik-Mix costs less than the ordinary mixers. Steel frame---built for hard use---yet light and easy to move. Capacity, three cubic feet a minute---hand or belt power---fully guaranteed.

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Dog Medicine

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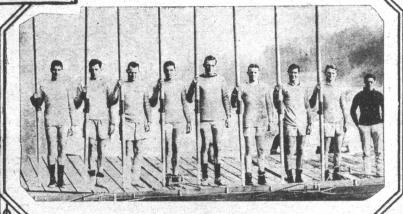
WORLD EVENTS IN PICTURES



A hugh dirigible built in Italy for United States government at a cost of \$200,000.

Allies occupying Dusseldorf, leading German industrial city on Rhine. Tanks are going through maneuvers in public square.





Favorable weather enables Yale University to turn out finest oarsmen in its history.

A German crowd at Konigshutte postoffice waiting to register for the plebiscite which was to determine whether Poland or Germany should have the upper Silesian territory.



Buster, a Galapagos land Tor toise giving boy a ride. Buster is believed to be three hundred years old.



Miss Mildred Daly, of San Francisco, takes a daily walk in water, wearing the "Steinmetz Water Walker." This device is made of rubber sheeting, old auto tire and boots. May be used for hunting, fishing or water-walking.



Statue of General Simon Bolivar, "the George Washington of South America," presented to the City of New York by the City of Caracas, Bolivar's birthplace.

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THE CLAN CALL

By HAPSBURG LIEBE Copyright 1920, Doubleday, Page & Co.



who had just returned from having began to consider. seen Adam Ball caught, disarmed, and imprisoned in an old tobacco-barn, finally, "and take her to Barton's Sta- woman with something of admiration Moreland hastened to Dale, the new

"When does the next south-bound train pass the Halfway Switch?" Dale impatiently interrupted Bill Dale. wanted to know.

a fast train, and it don't never stop at Barton's Station. What was the differ- less be unconscious until the pressure

Then we'll hold it up," declared the anyway? new master in a voice of iron. "This is a case for a surgeon. Get a blanket and two poles, and make a litter."

who sat in a motionless heap beside second to decide which?" the still figure of his daughter.

"It was only a few hours ago," he said accusingly, "that this poor girl told me she'd be glad to give her life haps, she's done it! You're a brute, went pale and mentioned the law-but Littleford. I like to fight, myself, but he agreed to stop the southbound. not when it costs women anything."

conscience-stricken hillman gave no sign that he had heard. There was silence save for the low murmur of the river and the tragic song of a bird somewhere in the branches of the big white sycamore.

CHAPTER VIII. Back Home.

VERY mother's son of the feudists was numbered in the party that filed across David Moreland's Mountain to intercept the next southbound train. The old enmity was for the time being forgotten. Members of one clan rubbed elbows with members of the other clan, and thought nothing the limp form of Babe Littleford; Bill Dale carried the other end.

Close behind the litter walked Babe's father, seeming old and broken with Mister." remorse for the thing he had done. The grief of Ben Littleford was touching iness. now, and Dale was a little sorry that he had spoken so bitterly to him.

south-bound to pass. Dale gave over there was a doctor aboard. his end of the litter to Caleb More-

Dale wanted the fast mail stopped, "Mr.

The engineer smoked and consider-Dale beckoned to John Moreland, conductor stepped to the ground and thorough an examination as was possi-

tion. There's a good doctor at Bart- in his sober, professional eyes.

"But this is a case for a surgeon!"

Dale became angry.

"You'll stop the fast mail for us," he not much ground for worry." snapped, "or we'll take your red flag ently. Dale turned to Ben Littleford, girl aboard, and you've got only half a

> The conductor was obdurate. The mountain men were too hot-headed to way that was pitiful. bear with him longer. The positions

As he ordered the flagman up the tracks, the sound of the fast train's whistle came to their ears.

The flier came to a screeching halt with sparks streaming from its wheels. Bill Dale and John Moreland passed the litter and its burden into the baggage-car and followed it hastily, and Ben Littleford climbed in after them. John Moreland leaned out of the doorway and ordered his son, Luke, to pass him his rifle, and Luke obeyed.

There was a shriek from the whistle, train soon began to gather momentum. land and asked why the rifle. Moreof it. John Moreland himself carried land half closed one keen grey eye and

"Oh, I jest brought it along to see gical aid without delay. 'at everybody has a straight deal," he drawled-"go on about yore business,

ten minutes before the arrival of the thing of the circumstances, he insinu- enemy queerly, fast mail. A short passenger train was ated that Dale had done exactly the

Within five minutes he returned in girl was then coming out from under with her father and 'poor dear Harry

"Doctor McKenzie," he said politely;

"Dale."

The two nodded, and the physician of the following day. see the conductor. He did, and the the center to swing free. He made as

"Perfect physique," he said though to himself. "She will have to undergo an operation," he told Dale, They disagreed. The old trainman "The bone there is broken in slightly, "We could make it, all right, but it's was a close friend of the doctor at making a compression; she will doubt-divided the pillows and linen evenly, ence between a doctor and a surgeon is relieved. But she has fine chances for a quick and entire recovery, with a good surgeon on the job, so there's the following morning, an alert-eyed

Dale was glad. They were all glad. John Moreland hastened away obedi- and hold her up long enough to put the Ben Littleford laughed nervously in his sudden joy. He went down to his knees beside his daughter, took up one did you know I was here, anyway? of her limp hands and stroked it in a Your boasted nose for news, eh?"

> When he arose, he spoke cordially emy with contempt.

wished.

"If you please," said Dale.

the surgeon, a stocky, bald man with some news." perpetual smile. Braemer took and the brakes were released; the mobile; but they asked no questions that the girl wouldn't like the pub-

"I don't like the smell." Everything had been made ready for one end of the crude litter that held patted the walnut stock of the repeater. the operation, and Babe received sur- kept it well to himself.

waited in another room. Dale had in "Is there a romance connected, Bill?" duced John Moreland to unload his The baggageman went about his bus- rifle, both chamber and magazine. Babe's father paced the floor a trifle The conductor of the fast train was anxiously now and then. Moreland sat tle. "Tell me the news." very unlike the conductor of the north- like a stone, with his empty rifle be-They reached the Halfway Switch bound. When he had learned some tween his knees, and watched his old friend toward a pair of empty chairs.

It seemed a long time before Brae- before yesterday. We-' on the long siding, waiting for the right thing. He would see whether mer came to them and told them smilingly that it was all over and that the

all right soon, he was reasonably certain. No, they'd better not see her just then. But perhaps they could see her at some time during the afternoon

Dale escorted his two companions to a modest hotel and then put them in a room that had but one bed; by thus throwing them together in a strange ble under the conditions, then arose land, he hoped to do something toward "Better put her on my train," he said and stood looking down upon the young making them friends. Then Dale went to another room, undressed and went

> It may be noted parenthetically as it were, that John Moreland and Ben Littleford quickly reached a wordless agreement not to sleep together—they tore the odd coverlet exactly in half, and slept on the floor.

When Dale went down to the lobby young fellow sprang from a chair and hastened to him.

"By George, Bobby!" Dale exclaimed, as they began to shake hands. "How

"Guilty," smiled McLaurin. word last night that a mountain girl of a dozen rifles underwent a sudden to Moreland. But Moreland didn't re- had been brought to Braemer's, accito stop your fighting, and now, per-change. The conductor immediately ply. He still looked upon his old en-dentally shot, and I smelled a feud; so I hurried over to get the story. You Doctor McKenzie was leaving the had just left, and Braemer's didn't train at the next town of importance, know much about it. It was too soon and he would wire Doctor Braemer to after the operation, they said, for her meet them with an ambulance, if Dale to see me; then one of the nurses whispered to me that you had brought her, and said that I would find you here. So They reached the city shortly before here I am, Bill, and I want the story. midnight, and were promptly met by I'll 'phone it in, and then I'll give you

"The story musn't be published, charge of the patient, put her into his Bobby," Dale replied. "For one reason, ambulance, and hurried her to his pri- there is a feud; and if the law knew, vate hospital. Bill Dale and the two it might take a hand-you see, I think clan chiefs followed in an automobile, there is a better way to take care of The hillmen had never seen an auto- that feud. And I am of the opinion about it, and the only word of com-licity. There wouldn't be a great deal A baggageman approached John More ment was this, from John Moreland: in it for you, anyway. Suppose you forget all about it, Bobby."

If McLaurin was disappointed, he

They said she was handsome, a The two mountaineers and Dale sort of primitive Venus," he winked.

"Not yet," smiled Dale. "But soon?"

"Who can tell?" Dale shrugged a lit-

"All right." McLaurin drew his "I married Patricia Clavering the day

"Bully! Go on."

"We were married in an automobile,

AL ACRES-What the Boy thinks the Pilgrims landed on.

-By Frank R. Leet



Yesterday we went to housekeeping in his voice was filled with pleading. a cute little suburban bungalow, furni- "What you did is all right; we'll never ple won't even look at us, Bill! But you, Carlyle, my boy?" do we care? Bill Dale, I ask you, old dear, do I seem to be worrying? Hon- ly in spite of himself. "I've spent all is going to happen to me. I'm to have I'm getting ready to develop the coal a lift in salary soon, and we won't be in David Moreland's Mountain." long in paying for the furniture; and when that's done, we'll buy the bun-

"And I'm informing you now, old savage," he continued, "that you're having one of the huge stone gateposts, as dinner with us this evening. You'll though to steady himself, and some of find it pleasant. We do as we please, the color went from his face. you see. If you like, you may stir your coffee with your finger, eat with your knife, reach clean across the table, and pick your teeth with your fork. You can eat with your hat on, and you may have your dessert first. Moreland?" You can have an extra chair for your feet, and you can go to sleep at the table. Don't fail us. Pat wants to thank you for 'casting her aside' at the

Dale laughed boyishly. McLaurin went on:

"There's more news. Your father has been trying hard to find you. He knows that half so well as I know it," sent a man to Atlanta to look for you. said John K. Dale. His mouth quiverme, I'd call his hand!"

"And mother-have you seen her?" because of that." Dale muttered.

wedding.'

McLaurin frowned. "Since you've nance. asked me, Bill, your mother-I overpecially that iconoclastic Herald."

"I see," said Dale. He brightened and went on, "as soon as I can get my tered Bill Dale. "I can get the neces-

miss it."

foolish if you didn't. You should be don't you see, father? The Morelands She's a jewel, Bobby."

Half an hour later they caught a old coal king, John K. Dale.

At the wide front gateway young Dale drew back.

"Bring father out here," he said in a low voice. "From what you told me, house and lot!" I guess mother wouldn't want me to come in. But you can find out about gets his house and lot." that-"

see him. While she had never seemed like a tomb. Young Dale touched his to care for him as other mothers car- friend on the arm. ed for their boys; while she hadn't "Tell me, what did mother say? I been quite so dear to him as she might know it's going to hurt, but-tell it." have been-

let me know."

he was shown in. Yet another moment, it with a finger, and looked toward me. and John K. Dale, his florid face beaming with gladness, hastened out to the Mr. McLaurin?" she asked. gateway. Young Dale was instantly touched by his father's new attitude toward him; then he remembered the coldly, I want you never to forget long night of David Moreland's people, this: To me there is no such person and he stiffened a little and drew back on earth as Carlyle Dale.""

"You've come home to stay, haven't

chasing us like wildfire in another car. you, Carlyle?" said the older man, and ture on the installment plan. Her peo- mention it again. You'll stay, won't

"No," answered the son, a trifle coldest, I'm so happy I'm afraid something the idle, useless years I'll ever spend.

"David-Moreland's-Mountain!"

The retired coal magnate breathed the three words in a husky tone. He put forth a hand and rested it against

"You say David Moreland's Mountain, Carlyle?" jerkily.

"Yes."

"And you-you learned about David

"Yes." Bill Dale folded his arms and stood there looking at his father with eyes that accused.

"You know who killed him?" old Dale muttered.

"I do, and it was a shame-a black shame."

"Yes, it was a black shame. Nobody He told me he'd give me a house and ed. He looked downward, looked up lot if I'd find you-and if there was a again. "Son, you can never say or little more of the highway robber in think worse things about me than I have said and thought about myself-

Dale the younger glanced toward the "I've seen her twice since the near- house. Robert McLaurin was coming slowly down the verandah steps. Mrs. Dale was nowhere in sight. She didn't "Did she have anything to say about want to see her son; she didn't even me? Tell me the whole truth, Bobby. want to see her son; she didn't even want him in the house. Bill Dale read it all in his friend's design.

"You'll need money, if you're going heard her telling your father that she to develop that coal property," Dale would never forgive you for the 'utter- the elder was saying. "You haven't ly shameless, disgraceful scene' you any money, and those mountainfolk made in church. The papers-not haven't any. I'll give you all that's mine, though-made the most of it, es. needed. I'll send you mining machinery, and expert mining men; I'll-"

"You needn't," broke in the embittwo friends down to the dining-room, sary funds without difficulty. I'll pay Bobby, you're going with me to father. the debt myself. You've had a great We're going to claim that house and many years in which to try to make amends, and you haven't done any "For Particia's sake, I've a thunder- thing. You might have helped the ing big notion to take you up," laughed Morelands without their even knowing "Your dad would never that it was you, especially as they seem to have known you by another "That's it—take me up for Pat's name. Here you have one reason why sake," said Dale, rising. "You'd be I cannot accept assistance from you; willing to do anything, almost, for Pat. wouldn't have it, and I couldn't lie to them."

He motioned to McLaurin, who had passing car that soon carried them to halted on the lower verandah step in a palace of granite and stone and order that he might not overhear, and cream-colored brick-the home of the turned and walked away. McLaurin followed, and soon overtook him.

Bill Dale stopped suddenly and faced back to his father.

"Remember that Bobby gets his

"Yes," replied John K. Dale, "Bobby

He went sadly toward the mansion He hoped his mother would want to that seemed to him now a good deal

"She was sitting beside an open win "And if she wants to see me, Bobby, dow in the library," said McLaurin. "I told her that you were at the gate, and McLaurin smiled a somewhat wor- asked if she would like to see you. At ried smile, and went up to the front first I was afraid she hadn't heard me. door. The old servant, Isham, met him Then she opened a book that she was and took his card, and a moment later reading, found her place and marked

"Who did you say was at the gate,

"Your son, Carlyle," I answered.

"'Mr. McLaurin,' she said to me

They went downtown in silence. (Continued next week).



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By so doing you offer a fine tribute to the Bell organization which has created this "Long Distance" service—a service no other country has attempted to equal.



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as well as other members of the household.

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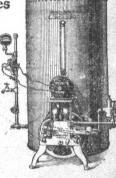
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Woman's Interests



CAREFULLY PLANNED FARM HOM

Mrs. Edith M. Wagar, recently elected to the Executive Committee of the State Farm Bureau, is mistress of a

practical, convenient farm home. We have prevailed upon Mrs. Wagar to tell our readers about her home—Eds.

E moved the old house and built where it stood, as .the trees would not be moved-and must not be sacrificed. We live on a slight rise of ground-and deemed it best to build a semi-bungalow, with hip-roof for a better appearance. Every room screened, and has porch shades that a hurry from outdoors. The sewing-is used every day—not too big for a can be lowered when needed. It is room and cloak closet is ideal. We small family, yet arranged to accom- used all the time in summer, for work- wanted a cloak closet on the first modate any crowd necessary on a farm ing, sewing, etc., by day and as a sleep- floor, yet begrudged any of the front for business or pleasure.

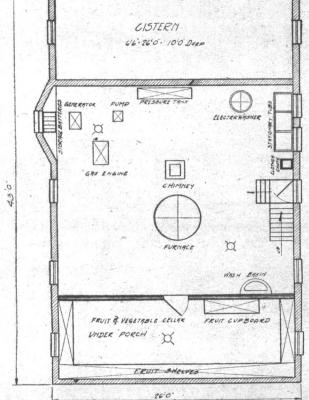
bath-room, kitchen and basement, comes from the cistern and is rain-water. As yet we have no well water piped into the house, but hope to have some day. We only use it for cooking and drinking purposes.

We have a hot-air furnace and find it is very satisfactory, have a register in every room of the house but the storeroom at the rear of the first floor. That saves any running up and down the stairs to the cellar in the winter. We use an ice box in the summer. There are more modern lighting plants than ours, but this has been in use nearly five years, with no trouble at all. It serves the double purpose of lighting house and barn.

The men use the grade door exclusively. They wash in the basement, leave their

there, and can reach the dining or living-room without go- plants in summer. The twin windows ing through any part of the work-room of the living-room are short enough of the kitchen. This is a grand thing that a table or couch can be placed on threshing day.

to clean and will not rot, is entirely that time.



boots, hats and coats Eight-foot Basement Extends Under Whole House.

under when necessary, and the two The porch floor is cement. It is easy side lights were placed there to use at

> and dining-rooms was French doors if they time. The colonnade bespace. porch.

to reach from any part Above that is a space of the house, and easy about a foot high that for the men to reach in gives ample serving room.

ing-porch at night. It has wide cement of the house for that purpose as it al-The water supply, hot and cold, for built-up sides that hold all of our ways leaves a dark corner and we wanted all the light and air we could get-so we combined the two. It was necessary to build this room and the store-room next to it as we wanted to cover the cistern and could not have so big a cistern in the basement otherwise.

The cot is in the sewing-room during the winter, and on the porch sum- and has been very successful in every mers, and can be opened in case of emergency. The mirror door between since made. dining and sewing-rooms was my one it is in the ideal place.

is very conveniently placed on all over the wash basin. The basement is eight feet deep-so there is chance for plenty of sion that we have an expensive house light, and room for furnace pipes.

And now the kitchen. How we plan-

ned and planned. The range and hot water tank just fit in their space-we measured and re-measured to get that chimney in the right place. Across the south side under the two short The The telephone is easy aprons and handkerchiefs. Above that is the cupboard proper, with four shelves—the doors are broken, two above and two below that the entire space is not exposed when a door is opened. We keep our large roaster, extra kettles, etc., on the top shelves. This built-in pantry runs to the ceiling.

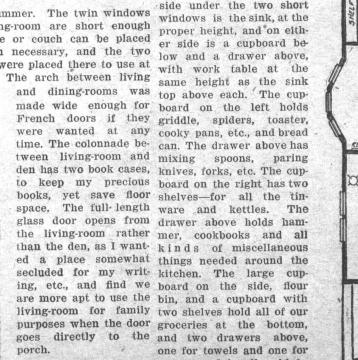
The kitchen floor is covered with linoleum, also the floor of the store-room. Rugs are used on all other floors.

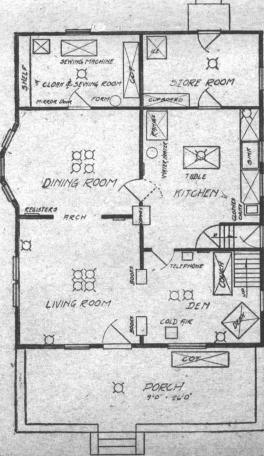
I must speak of the water faucet outside—that saves many a trip after water when doing little jobs outdoors.

The sewage from the bathroom and sink goes into a septic tank near the barn, from which it is connected with a tile drain to the large drain of the farm. This septic tank is in two compartments, made of cement, air-tight, way. In fact, it has never been opened

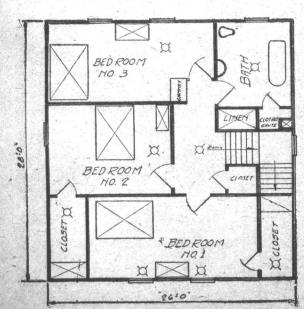
The linen closet in bathroom conextravagance, yet we could not part sists of three large drawers below and with it now. For fitting dresses, etc., three shelves above, with two doors. The closet in bedroom No. 2 has a The laundry corner of the basement chest of three large drawers in the is Heaven for washday. I cannot say rear with shelf above. The small clostoo much in favor of three laundry et from hall has five shelves on one tubs, if there is room at all to have side. The broom closet from bath them. And have them placed at the holds broom, dustless mop, extra toilet right height for the woman that uses paper, stool brush, plunger, etc., also them. Notice the two windows over the clothes chute. Each bedroom has the tubs on the south side of the base- two windows, each closet a light. This ment. This means plenty of light and house has a hip-roof, hence the closets air when needed. The clothes chute along the sides. A medicine cabinet is

> I do not wish to leave the impreswith expensive furnishings. We cut (Continued on page 443).





First Floor Twenty-six by Forty-six Feet.



The Second Floor Has Ample Closet Space.

The Revival at Mud Valley

Our Weekly Sermon-By N. A. McCune

(Continued from last week).

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"Can we come and listen?" venture in behalf of the weak and for and we hope you'll want to join us." think that it is listening to the call of its great head." "There never was a A T seven p. m., the class met in the time when full, large Christianity was church. They had to meet in the so evidently necessary as now." Mr.

Agriculture is becoming more moral tone of the village going upward or downward?

In this upward trend, the church can Mr. Ruler said the questions in re-

"Next Sunday night, at seven," said

(Continued next week).





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Woman's Interests



CAREFULLY PLANNED FARM HOM

Mrs. Edith M. Wagar, recently elected to the Executive

Committee of the State Farm Bureau, is mistress of a practical, convenient farm home. We have prevailed upon Mrs. Wagar to tell our readers about her home—Eds.

E moved the old house and built where it stood, as .the trees would not be moved-and must not be sacrificed. We live on a slight rise of ground-and deemed it best to build a semi-bungalow, with hip-roof for a better appearance. Every room screened, and has porch shades that a hurry from outdoors. The sewingfor business or pleasure.

bath-room, kitchen and basement, comes from the cistern and is rain-water. As yet we have no well water piped into the house, but hope to have some day. We only use it for cooking and drinking purposes.

We have a hot-air furnace and find it is very satisfactory, have a register in every room of the house but the storeroom at the rear of the first floor. That saves any running up and down the stairs to the cellar in the winter. We use an ice box in the summer. There are more modern lighting plants now than ours, but this has been in use nearly five years, with no trouble at all. It serves the double purpose of lighting house and barn.

The men use the grade door exclusively. They wash in the basement, leave their there, and can reach

on threshing day.

CISTERN 66.260. 100 Deep A FURNACE FRUIT & VEGETABLE CELLAR UNDER PORCH FRUIT SHELVES

boots, hats and coats Eight-foot Basement Extends Under Whole House.

the dining or living-room without go- plants in summer. The twin windows ing through any part of the work-room of the living-room are short enough of the kitchen. This is a grand thing that a table or couch can be placed under when necessary, and the two The porch floor is cement. It is easy side lights were placed there to use at

> and dining-rooms was tween living-room and mixing spoons, The full-length

of the house, and easy about a foot high that for the men to reach in gives ample serving room.

is used every day-not too big for a can be lowered when needed. It is room and cloak closet is ideal. We small family, yet arranged to accom- used all the time in summer, for work- wanted a cloak closet on the first modate any crowd necessary on a farm ing, sewing, etc., by day and as a sleep- floor, yet begrudged any of the front ing-porch at night. It has wide cement of the house for that purpose as it al-The water supply, hot and cold, for built-up sides that hold all of our ways leaves a dark corner and we wanted all the light and air we could get-so we combined the two. It was necessary to build this room and the store-room next to it as we wanted to cover the cistern and could not have so big a cistern in the basement otherwise.

The cot is in the sewing-room during the winter, and on the porch summers, and can be opened in case of emergency. The mirror door between dining and sewing-rooms was my one extravagance, yet we could not part sists of three large drawers below and with it now. For fitting dresses, etc., it is in the ideal place.

is very conveniently placed on all over the wash basin. light, and room for furnace pipes.

And now the kitchen. How we plan-

paring The living-room for family two shelves hold all of our purposes when the door groceries at the bottom, goes directly to the and two drawers above, one for towels and one for The telephone is easy aprons and handkerchiefs. to reach from any part Above that is a space

with four shelves—the doors are broken, two above and two below that the entire space is not exposed when a door is opened. We keep our large roaster, extra kettles, etc., on the top shelves. This built-in pantry runs to the ceiling.

The kitchen floor is covered with linoleum, also the floor of the store-room. Rugs are used on all other floors.

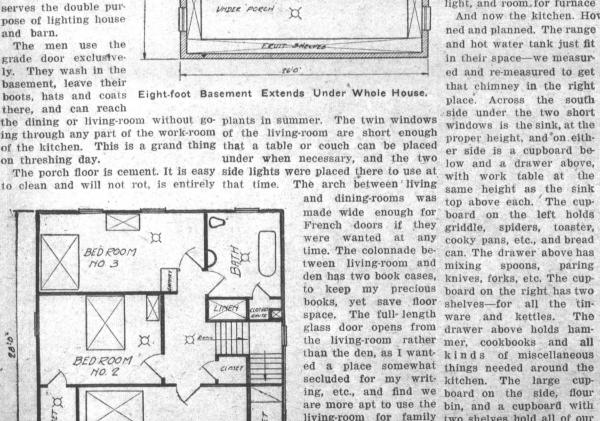
I must speak of the water faucet outside—that saves many a trip after water when doing little jobs outdoors.

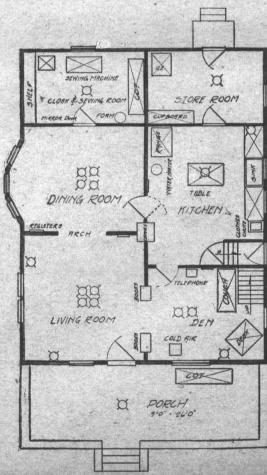
The sewage from the bathroom and sink goes into a septic tank near the barn, from which it is connected with a tile drain to the large drain of the farm. This septic tank is in two compartments, made of cement, air-tight, and has been very successful in every way. In fact, it has never been opened since made.

The linen closet in bathroom conthree shelves above, with two doors. The closet in bedroom No. 2 has a The laundry corner of the basement chest of three large drawers in the is Heaven for washday. I cannot say rear with shelf above. The small clostoo much in favor of three laundry et from hall has five shelves on one tubs, if there is room at all to have side. The broom closet from bath them. And have them placed at the holds broom, dustless mop, extra tollet right height for the woman that uses paper, stool brush, plunger, etc., also them. Notice the two windows over the clothes chute. Each bedroom has the tubs on the south side of the base- two windows, each closet a light. This ment. This means plenty of light and house has a hip-roof, hence the closets air when needed. The clothes chute along the sides. A medicine cabinet is

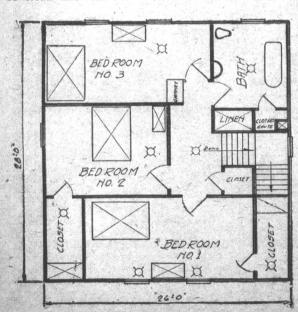
floors. The basement is eight feet I do not wish to leave the impresdeep-so there is chance for plenty of sion that we have an expensive house with expensive furnishings. We cut

(Continued on page 443).





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Lock Box 197. Prairie Depot, Ohio.

White Wyandottes Am offering some potency, good breeding Cockerels at \$5.00; \$7.50 and \$10.00, bred from Chicago Coliseum winners of Best Display and Hogan tested layers. Eggs \$3.00; \$5.00 and \$10.00 per Ib. Catalog free.

H. J. RILEY, Box M. Hillsdale, Mich.

100,000 CHIX 14c UP.

Best selected utility trapnested exhibition stock ever produced. Always 2,000 chix on hand 5 to 15 days old. 18 varieties. Hatching eggs. Hens, ducks. Early bookings, avoids disappointment. Catalog. Beckman Hatchery. 26 E. Lyon, Grand-Rapids, Mich,

Useful Anconas Are you interested in results? Hogan winter and summer, beauty and utility combined hatching eggs of real quality at prices that will surprise you. Specialty breeder of S. C. Mottled Anconas Write for booklet. (Useful facts about Useful Anconas) it is free. College View Farm, Hillsdale, Mich.

Hill's Barred Rocks hatching eggs from heavy-laying, Hogan tested, well barred flock, 15-\$2.50;50-\$6.00; 100-\$10. Circular free. Lucian Hill, Tekonsha, Mich.

Our Boys' and Girls' Page

My Corn Club Story

By Forest Bedell, Champion Corn Grower

terested in club work. We did club work as I do. not have a local club leader then Comments on Forest Bedell's Work. is a good plan because you know what Boys' and Girls' Corn Club Contest. no money in.

not have been so interested in keeping work was crowned with success. College. I also had two quarts which prize. But the last year was the crown-

BOUT five years ago I became in- girls will take as much interest in

but I wrote to the state club leader This last Farmers' Week another and got some information from him. I corn exhibit was held at Michigan Agraised corn every year and last year ricultural College. Instead of winning the county club leader helped me. I two quarts of corn, Forest's exhibit like to raise corn and think there is won first place in the Pickett's Yellow money in it. I have kept a careful ac- Dent ten-ear exhibit. He also has been count of all my expenses and think it awarded the state championship in the

there is money in, and what there is Genesee county is very proud of the work Forest has done. He is now If I had not joined the club I would nineteen years old and his last year's

track of my expenses and profits. I There is a lesson to be learned form think the club work is just the thing Forest's story. The motto for Genefor boys and girls to get into because see County Boys' and Girls' Clubs was they will get a lot of experience in it. before Forest all through his season's I had never planted pure-bred corn work. It is, "What we Start we Finuntil last spring, when I bought eight ish." It took four years of faithful quarts from the Michigan Agricultural work before Forest made even a small



Forest Bedell and His Prize Corn Crop.

Lansing.

I did not get my seed in time to test of May when it got here. I had my boy to aim high; the state championground all plowed and ready to plant ship was his goal. To produce real reand I planted it the twenty-eighth of sults in Boys' and Girls' Club work the May and it came up in a few days and cooperation of the parents is absolute-I had a good stand. I planted it twen- ly necessary. Second, there was some ty-eight inches between the rows and one who represented a county and two feet in the row and thinned it out state organization interested enough down to two kernels in a hill. I then and able to advise and encourage him cultivated it five times. I culti- to make his crop and exhibits a sucvated it about four inches deep at cess. Third, because he had the best first, and on the last about two inch- material he could get to work withes next to the hill and a little deeper pure-bred seed adapted to his locality. in the middle. I was careful not to destroy the roots. I hoed it twice and kept all of the weeds out and this gave it a better chance. The only thing I was bothered with was smut and I went through and pulled the stalks out. Next year I am going to treat my corn before I plant it.

and found I had one hundred and nine- record-breaking cows or fine horses. ty-five bushels to the acre. I am going \$37.30.

of \$15 and a blue ribbon.

Additional Poultry Ads. on Pages 543 and 544 I can. I hope other country boys and dren but it's worth it.

I won at Farmers' Week last winter at ing year of them all. Can you tell why?

I can tell you why. First, because because it was the twenty-seventh Mr. and Mrs. Bedell encouraged their -KELSEY B. SMITH, Genesee County.

FARMER SHOULD SPEND TIME WITH SON.

THE best crop any man can raise on. a farm is a crop of just plain kids. What would be the use of working I cut it the first and fifth of October hard to develop a fine farm unless before the frost cut it, and I husked it there were some good dependable boys the fifteenth, and on the eighteenth to leave it to in the end? But boys and and nineteenth of October I weighed it girls are more difficult to raise than

A farmer who is developing a fine to store it on the scaffold this winter. farm that he hopes to turn over to his I sorted it and had one hundred and boy some day should devote as much five bushels of shelled corn. I am go-time to the boy as to the farm. He ing to feed my stalks to the cattle and should make him proud of his busithe cull corn to my poultry. I will sell ness. He should develop in him an the shelled corn. I am going to raise early interest in agricultural matters. pure-bred corn every year if possible. The farmer should give the boy his My profit was \$317.30 and my expenses ideals and be sure that he brings the lad up an honest, dependable man. He My corn was not ready for the coun- should look after his health to be sure ty fair but I took it to the Flushing that the boys are strong and vigorous. Fair and got first prize. I sent an ex- And by constant effort on his part he hibit to the Interstate Corn Contest should develop in the young man habheld in Louisiana, and got first prize its of thrift and industry that will insure his success. It takes time and I like club work and will help it all trouble to raise a good crop of chil-

PRICES SLASHED SKIRT BARGAIN WE PAY POSTAGE BY MAIL are making this intro y skirt offer to acqu men with our fair

PAY \$2.98
AILMAN \$2.98
hen Skirt is Delivered not perfectly satisfactoryturn at our expense and get or money back. Guaranyour money back. Guaranteed Bargain. This beautiful shirt is the very latest style. Attractive fancy pocket. Wide heavy inside girdle. Skirt is shirred all around falling in graceful folds; cut full and roomy with extra wide sweep. Colors—Navy Blue, Black, or Grey. Sizes 24 to 4 waist. Order by Number 126 C25 HOWARD LUXCO., DEPT. 128 CLEVELAND, O.



KEEPS EGGS FRESH Remarkable Discovery Keeps Eggs Fresh For One Year

Fresh For One Year

C. G. Knight, a prominent druggist of Chicago, has discovered a wonderful new preparation that is guaranteed to preserve all fresh eggs perfectly for one year. He calls it the K. & G. Egg Preservative. It is not liquid glass but comes in powder form. One package mixed with three gallons cican water will preserve 25 dozen eggs. Makes a safe solution to put eggs in for winter. No change whatever takes place. No odor,—no taste. Eggs can be used for all purposes: poaching, boiling, pastries. The yolks do not break down. Eggs always fresh.

Mrs. A. Kisseibsch. E. St. Louis, says: "Can honestly say I have had great success with K. & G. Preservative." Mrs. J. M. Liljedahl, Essex, Jowa: "I have found your egg preservative entirely satisfactory." Mrs. S. R. Shinkel, Michell, S. D.: "My eggs kept just fine. Shall use your preparation next year sure." Mrs. E. S. Sunmerliek, 4635 Calumet Ave., Chicago: "I have used your preservative two years. Have used your preservative two years. Have used many egg solutions but Ind K. & G. more satisfactory."

Now is the time to begin preserving eggs. April

atisfactory,"

Now is the time to begin preserving eggs. April ggs will be worth twice as much to you next winter. Begin right now and let K. & G. Egg reservative make money for you. Write today to the K. & G. Laboratories Co., Dept. F., 338 E. let St., Chicago, Ill. Send 53e and get big ackage prepaid. Enough to preserve 25 dozen ggs. Write today—Now.

Agents Wanted in Every County

H. Eikenhout & Sons Berry Boxes Baskets Fruit Packages

ONE CAR LOAD

Grand Rapids, Mich.

Coffee at Wholesale

is what the people of Michigan want. We guarantee our goods to be satisfactory or money refunded.

Let us parcel post you prepaid.

3 lbs. \$1.00 or 10 lbs. \$3.20.

State if you want it ground.

5 lbs. choice Black, Green or Mixed Tea \$2.50.

John E. King Coffee Co. 160 Jefferson Ave. East, Detroit, Mi

POULTRY

Buy 'em Home April Ghicks

april 25th, 27th May 2 and 4, Barred Bocks, R. I. Reds 516 per 100. White Rocks, Orpingtons, Vyandottee, 118. Brown Leghoras, 515. Add 50c or half and quarter hundreds. Please name secund-choice. Prepaid and guaranteed live delivery.

Washtenaw Hatchery, Ann Arbor, Mich.

Poultry Lessons

By R. G. Kirby

Lesson VIII.—Artificial Hatching and Brooding Pointers.

T N all artificial hatching operations it pays to follow the directions furnished with the machine. Secondhand outfits are not a safe investment unless their condition can be guaranteed by some friend. The loss of one lot of eggs might make a cheap incubator more expensive than a good new

If possible locate the incubator in a dry cellar. The next best place is a vacant room where the temperature can be controlled. Always remember that the outside air is constantly flowing into the machine and the colder the room the greater the amount of heat that will be needed to incubate the eggs.

Eggs that are constantly jarred in the machine will be apt to hatch poorly. Have the family cooperate by walking quietly when near the machine. Never slam doors near an incubator or the jar will cause the eggs to vibrate. Always level the machine before starting it. If one end is higher than the other the greatest amount of heat will naturally be at the highest point.

Many losses in incubators are blamed on the machine when the eggs have caused the trouble. The older the eggs when placed in the machine the less the chances of a good hatch. So use eggs as fresh as possible. Never use chilled eggs. This means that they must be gathered frequently in cold weather. Do not let the eggs become heated later in the season or the germ will start to grow. Then if the egg cools the germ will die and, of course, such an egg will not develop into a chick after being placed in the incubator.

Artificial brooding requires some of the manufactured equipment which is not too expensive, but very satisfactory.. We do not advise the building of brooders at home unless the maker has had some experience in such work. There is always more or less fire risk in a home-made brooder.

When chicks are to be artificially brooded it pays to heat up the brooder a day in advance and have everything ready for the comfort of the chicks. A small colony house is fine for the brooder at all seasons. The lamp-heated brooders can be moved out on the lawn when the weather is good and then the chicks can run right out on the green grass and forage. The coalburning colony hovers are used to protect flocks of two hundred chicks or more and they are located in a colony house all through the period of brooding. They are useful for the boy or girl who owns a large incubator and will have several hundred chicks to brood at one time.

In all kinds of artificial brooding no lax attention is possible if good results are expected. It is harder work than brooding with hens and the boy or girl who raises healthy flocks of chicks with artificial heat must personally act as a sort of substitute for the old hens and give those chicks the best possible Sanitary brooders are very essary. Both over-heating or chilling will severely injure the chicks.

CAREFULLY PLANNED FARM HOME.

(Continued from page 540).

corners in every way we could. As yet, after four years we have not decorated any of the walls. The plaster was clean, and not ugly to look on, so what it would cost to decorate we put into some permanent feature of usefulness. We chose fixtures with an eye to substantial worth, rather than to appear-

Let Discomfort Be Only a Memory



Factory Prices Save You Money

We offer you sure saving, guarantee everything we sell and guarantee that you must be satisfied that you have made a saving by buying Direct-From-Kalamazoo—or we will return your money. Ranges, Pipeless Furnaces, Combination Coal and Gas Ranges, Kitchen Kabinets, Paints, Roofing, Cream Separators—all at prices lower than you expect. Cash or Easy Payments — Take 10 Months or 1 Year to Pay

Just send name and address on a post card and we will show you prices on guaranteed house and farm necessities that will surprise you.

k for Catalog No. 113 KALAMAZOO STOVE CO., Mfrs. Kalamazoo, Mich.

BARRED Rocks 15 eggs. \$1.50; 100 for \$7; by prepaid mail. Flock average 133 eggs. 38 hens laid 5072 eggs last year, \$1LEWIS B. AVERY. Clinton, Mich.

Baby Chicks Rose and Single Comb Reds. May, GORET BROS., Route 1, Coruna, Mich.

Barred Rock Chicks duced Prices. Write for circular, H. H. PIERCE, Jerome. Mich. BEST Breeds, Chickens, Ducks, Geese, Turkeys, Guin-eas, Hares, Dogs. Stock and eggs. Write your wants. Catalog free. H. A. Souder, Box 24, Sellersville, Pa.

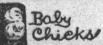
Chicks, for May and later delivery. Leghorn FREEPORT HATCHERY, Box 12. Freeport, Mich

Prices Reduced. Here is your chance to get-chicks that live, grow and pay. Trapnested, bred-to-lay and exhibition chicks. Brollers 12c, Leghorus 15c, Rocks, Reds, Anconas, Minorcas, Wyandottes 18c, Orpingtons 39c. Safe arrival and full count. Prepuid. Free catalog. Holgate Chick Hatchery, Holgate, Ohio.

DAY-OLD-CHICKS Heavy laying strain W. Leghorns \$7.25 per 50, 13.00 per 100. Anconas \$8.50 per 50, \$16.00 per 100 prepaid. Order today. Send for Home made brooder circular. Roy L. Drukker, R. 6, Grand Rapids, Mich.

Officially Certified Pedigreed S. C. Buff Leghorns chix and eggs from 218 to 281 record stock. Money makers priced right.
HENRY DePREE, R. 8, Box 137, Holland, Mich.

C-H-1-C-K-S 11 varieties, bred stock, Send postal for prices. Save money, O. K. OHICK CO., Box II, Nappanee, Ind.



\$11 a 100 and up.

Postage PAID, 95% live arrival guaranteed. FREE feed with each order. 40 breeds chicks, 4 breeds ducklings. Select and Exhibition grades, A hatch every week all year. Catalogue free. Stamps appreciated. NABOB HATCHERIES, Gambier, Ohio.

Rose Comb R.I. Red eggs for hatching. Orders booked now for Cockerels and pullets for fall delivery. MRS, ALBERT HARWOOD, R. 4, Charlevoix, Mich.

S. C. Brown Leghorns Barron S. C. White Leghorns 252-278 strain, Eggs 15-\$1.50;3(\$3.00; 50-\$4;100-\$7, prepaid. Miss V. Fulton, Gallipolis, C.

RHODE ISLAND WHITES win over all breeds at the egg laying contest. 30 eggs \$5; 50 \$8; 100 \$15 order from this ad. Some chicks. H. H. JUMP, R. 5, Jackson, Mich.

S. C. Black inorca cockerels exhibition and utility. Northrup Strain Exclusively, hatching eggs single settings or quantity. C. J. Deedrick, Vassar, Mich.

S. C. W. Leghorn Eggs Barron Strain stock for 30. V. O. YORK, Box 403, East Lansing, Whittaker's R. I. Red Chicks

Combs. Michigan's Color and Egg strain. Prepaid and safe delivery guaranteed. Send for free catalog. INTERLAKEN FARM. Box 39, Lawrence, Mich.

White Wyandottes: 207 egg average Hatching eggs, \$2.00 per 15. Baby chicks 28 cents each. Cockerels. \$2.00 per 15. Baby chicks 28 cents each. Cockerels, hens and pullets.
FRANK DeLONG, R. 3, Three Rivers, Mich.

Chicks S. C. W. English Leghorns; reduced price on 1000 lots by parcel post delivered, HENRY WATERWAY, R. 4, Holland, Mich. W. F. B. Spanish Hatching eggs. Heavy layers.Prize winners \$3 per 15 eggs.
S. C. M. Anconas Lawrence Lahaie, Cheboygan, Mich

60 BREEDS chickens, ducks, geese, turkeys, guineas, pigeons, hares, dogs. Fine illus, and deso, catiogonly 10c. Edwin A. Souder, Sellersville, Pa. White Wyandottee Official records, five hens 1074 eggs. Catalog free. Gw. SOHOTTMANN, Montrose, Ill. White Wyandottes Eggs \$2.50 per 15; \$4.50, 30 Baby Chicks. HOWARD GRANT, Marhall, Mich.

Mammoth Bronze Turkeys, Toulouse Geese and Pekin sucks. Either sex and eggs! CHASE STOCK FARM, Marlette, Mich

Additional Farm Ads. on Page 544



HICKS Established 1911 CHICKS

wed White and Brown Leghorns. Selected and bred for egg production and are some of the oday. Get some of these good Leghorns for the price is right. Write for catalogue with price Safe arrival guaranteed.

Wolverine Hatchery, Zeeland, Mich. R. 2, H. Wiersma, Owner and Mgr.

Baby Chicks Pure Bred 800,000 in 1921

To your door Prepaid by us. Guaranteed live delivery. All our stock is of the Standard and free range and of heavy egg production at the price to meet times. And they are all No. 1 only

S. C. White Leg.
S. C. Brown Leg.
S. C. Buff Leg.
Broilers

Other derivery. All our stock is the derivery. All our stock is the price of the price of

Give us a trial order and you will always come back for more

of our chicks get our big offer on chicks and brooders. Order direct from this ad and save delay. Circular Free.

WOLF HATCHING & BREEDING CO., Dept. M, Gibsonburg, Ohio.

At Reduced Prices CHICKS

20,000 large, strong, well hatched chicks every Tuesday hatched from eggs laid by selected hens on free range insuring healthy, vigor chicks that will live and grow into money for you.



Barron S. C. White Leghorn heavy weight and heavy layers American S. C. White Leghorns heavy laying strains S. C. Brown Leghorn the most beautiful Leghorn and a good layer.

S. C. Anconas great layers.

We Ship By Parcels Post and Pay the Postage to Your Door. We guarantee the chicks to reach you in good condition. Catalogue free.

WYNGARDEN HATCHERY, Box M. Zeeland, Mich.

Huber's Reliable Chicks--700,000 for 1921

By Parcel Post Prepaid. Guarantee Live Delivery.



This is our 12th season in hatching Baby Chicks of quality, bred for exhibition and high egg production. Prices after Apr. 1st. S. C. White and Brown Leghorns, 13 and 15 cts. Barred Rocks, R. C. and S. C. Reds, 15 and 17 cts; S. C. Anconas 14 and 16cts; S. C. Black Minorcas 22cts; S.C. Buff Orpingtons, 21 cts; White Wyandottes 25cts, Odds and Ends 13cts. Our chicks are hatched right and full of pep. All we ask is one trial and we know you will come again the same of thousands of others. Combination offer on chicks and Brooder stoves.

HUBER'S RELIABLE HATCHERY, East High St., Fostoria, Ohio



SUPERIOR BABY CHICKS

ure bred S. C. Amer, White Leghorns urebred S. C. English White Leghorns urebred S. C. Brown Leghorns urebred S. C. Mottled Anconas roller chicks 10 cents each.

Superior Poultry Farms and Hatchery, Box 203, Zeeland, Mich.

and 8 weeks old pullets AT REDUCED PRICES

American-English Strain S. C. W. Leghorns our specialty, Produced from the choice of 2000 hens on free range. We are not running a hatchery but produce all the eggs that go into our incubators from high quality selected stock, Only the best are used for hatching. This stock is worth more to you than those bought from the regular hatchery though our prices are practically the same. We are now cing orders for latter part of April, May and June deliv Our supply is limited so place your orders early.

Macatawa White Leghorn Co. R. 1, Holland, Mich.

DAY-OLD CHICKS

Strong, vigorous fellows, the kind that live and grow Carefully selected open range, purebred utility stock Price reasonable. Circular free. SUNBEAM HATCHERY, 2433 S. Main St., Findlay. Ohio

Baby Chicks

popular varieties. Acas.
Write for catalog at once.
AERDALE POULTRY FARM, Springfield, Ohio.

BABY CHICKS R.I.Red, Barred Rocks, White Leghorns, Selected healthy chicks. Order early, have winter layers, First hatch Feb. 28th. Write for price list and circular.

DERR & ADAMS, Litchfield, Mich.

DAY OLD CHICKS S.C. White Legtrap-nested stock where every hen must produce 60 eggs in four winter months. One hundred big thrifty chicks for \$25.00. MACALWHITE POULTRY YARDS, Alex. MacVittie, Proprietor, Caro, Mich.

BABY CHICKS, Eight improved varieties at lowest possible prices. A trial order will convince you of their superior quality. Catalogue free, Ohis Poultry Yards and Hatch ery, Marion, Ohio.

BABY CHICKS Hatching eggs, Barred trap-nested, bred-to-lay expertly tested for many generations, large illustrated catalogue 20c, stamps for circular. Morman Foultry Plant, Chatsworth, Ill.

Barred Rocks Hatching eggs from Parks 200-egg strain. Rich in the blood of Parks best pedigreed pens. \$2 per 15, \$6 per 50, \$12 per 100. Prepaid by parcel post in nonbreakable containers. B. G. KIRBY, Route 1, East Lansing, Mich.

Broad View Farm Big Type S. C. White bodied birds. Heavy layers of big white eggs. Exhibition type eggs 15 82-50. 100 88. Post paid. Ex. B. McKEROHER. Hillsdale. Mich.

Eggs, M.A.C culled White Leghorns and Rhode Setting. Mrs. Earl DeLane, R. 1, Oxford, Mich.

Barred Rock Hatching eggs, M. A. C. Laying Strain. 15 eggs \$2: 50 eggs \$4:50 Postpaid. Mrs. J. T. Ball, R 9 Charlotte, Mich. Barred Rock Eggs for hatching, selected quality, \$2.00 for 15, \$6.00 for 50; \$12.00 for 100. Prepaid Parcel Post. MR. H. HUNT, R. I. Dearborn, Mich.

Additional Poultry Ads. on Page 547

Farm Poultry

The Farm Goose Business

some member of the family is suffi- goslings. ciently interested in the birds to help come overstocked. The ganders are bird will be made. apt to fight if they are near together any of the birds.

some eggs and allowed to set.

profits from geese. It pays to fasten perience becomes broader.

SMALL flock of geese on the up the goslings at night in a rat and farm can be made a profit-maker weasel-proof colony house. Hawks will if there is plenty of range and occasionally kill the awkward young

The general farmer will find the the goslings to make a good start goose business the most profitable if Farmers that wish to enlarge their the flock is limited and quality is embusiness in geese beyond the stage of phasized. Then there will be chances the "small flock" should be very care- to sell both hatching eggs and breedful not to attempt too much and be- ing stock and the maximum profit per

The stock should be pure-bred and on a small range and if the range is unrelated. The Embden geese are very overcrowded it will not be good for beautiful because of the white plumage and the feathers bring the best price. Geese require attention in the spring. The Toulouse goose fattens easily and and they should not be allowed to the dark plumage always looks clean. steal their nests. The first eggs produc- They are a very substantial appearing ed can be hatched under hens and bird and appeal to many farmers as when the goose comes to the end of the most practical. The Brown China her laying period she can be given and the White China are two varieties of geese which are quite popular but The goslings are tender at first and not so generally seen on farms as the should be confined on a limited range Toulouse. They have considerable where they can be fed and protected practical value but are often classed when serious storms arrive. Sufficient as ornamental fowls. When obtaining green food must be included in the ra- a start with geese it is a good investtion at that time. Most of the pests, ment to buy a trio of the best breeders such as weasels and skunks, that trou- obtainable and then increase the stock ble chickens will also cut down the only as the profits appear and the ex-

Broody Hens Cut Egg Production

up" or gotten back to laving.

broody, will lay again in ten days.

If she is allowed to stay broody ten can see the rest of the flock. ty-five days before she will lay.

It is therefore essential to "break days. up" the broody hen the first day she shows symptoms of broodiness.

The most efficient way to "break up" proved most satisfactory.

NE cause for low egg production broodiness is to put the hens in a good in the average flock during the broody coop. A broody coop is nothsummer months is the fact that ing but a slat-like coop made out of the broody hen is not quickly "broken lath in such a way that a space equal to the width of a lath is left between Careful records have shown that the the laths on the four sides and bottom.

average broody hen, if placed in a This coop should be raised several broody coop the first day she goes feet from the ground and placed in a shady place where the broody hens

days and then put in a broody coop, it Feed and water the broody hens and will be twenty-five days before she will after four days release them. Genercommence laying. If allowed to stay ally this treatment is sufficient. If, broody twenty-one days, it will be thir- however, any hen wants to set again, put her back in the coop for two more

> This treatment will not retard the formation of eggs and everywhere has

Turkey and Chick Management

ed oats. Milk is fine in the turkey's the morning until the fields are dry. diet and should be supplied abundantly to obtain the best results. The poults they are fifty or sixty hours old. Then

grain ration very sparingly. Poults experience.

Will you tell me how to care for need some form of protection so they chicks and little turkeys?

St. Clair Co.

W. H. are lost every year by being dragged. are lost every year by being dragged Little turkeys can be raised on much through the wet grass by the mother the same rations as used for chicks, bird during rain storms. It is even They like cracked corn, wheat and roll- best to keep them in an enclosure in

Little chicks need not be fed until should be fed sparingly so they will the first meal should be fine grit, fol-always be active and hungry. They lowed by a drink of sour milk. Keep need exercise and plenty of range as the milk always before them. We use they are insect and seed-eating birds dry rolled oats for the first week and and thrive best when they can gather do not use a wet mash. Bran is fed the bulk of the ration for themselves. in hoppers, A hopper of charcoal will For feeding turkeys after the first help to keep down digestive disorders. week the Rhode Island Experiment Green feed should be available for the Station recommends the following chicks at all times but they will gather mash: Cornmeal, six parts; wheat it themselves during the summer. bran, four parts; middlings, two parts; When they are about a week old fine granulated milk, two parts; linseed commercial chick feed can be given meal, one part. The best turkey rais five times a day in small quantities. er we ever knew did not use any mash Start feeding larger grains, like wheat and we do not believe it is necessary. and cracked corn as soon as the chicks Young turkeys should not be fed un- are partially feathered out. Summer th about fifty hours old. Then they chicks are raised somewhat easier than can have plenty of milk and the bits the early spring birds which are in the of green feed they will pick up. But brooder house. Feeding methods vary do not stuff them with grain as it will but every breeder works out methods save money and turkeys to use the that he likes best after a few years'

Dairy Farming

Cooperative Dairying

The Hope of the Future

A Suggestion

HAS the idea pre-

ticle been considered

by the farmers and

breeders in your com-

munity? If not, why

not get together and

talk the question ov-

er? If your district is

as yet little developed

in the production of

pure-bred stock, then

there is all the more

reason why the ques-

tion should be discuss-

ed seriously right now.

Take the precaution,

however, to secure

men of experience and

good judgment to ad-

vise how to proceed

with a program of this

character.

sented in this ar-

tories, milk plants, or milk producers' cattle this requirement is milk productive production. This last phase of there are no substitutes for dairy dairy cooperation, though still in its products. infancy, is bound to take its place of equal importance along with the more to, and are establishing pure-bred popular forms of cooperation at the herds. Here is where the cooperative present time.

the early pioneers to carry them and ommendation, and often on the recomtheir belongings to the new countries mendation of a breeder who has cattle for the reason that besides being a to sell, regardless of the adaptability

beast of burden it was able to supply daily a liberal supply of milk, and at the same time furnish a resource for fresh meat and a desirable skin for leather. At this time a specialized animal was not desired, so the breed did not make much difference as long as the animal could work and freshened regularly.

As the land was gradually cleared and farms established, the cows were selected for milkers and other animals were used to do the work. When any community became so thickly settled that there was a sale for the products of the cow, more cows were added to the herd. When finally permanent markets were es-

tablished, farmers who took most nat- breeds are kept, milk production must cialized purpose.

Michigan, being relatively a new cattle. country, was rather late in reaching Others bought breeds recommended by from. friends or relatives, and even some seadopted the breed of the country from production.

NE of the most popular pastimes scrubs were not developed as milk-proof any group of farmers at the ducing animals for economic beef propresent time is the discussion of duction. Scrubs are suitable only for cooperative enterprises. For a gather-pioneering. Grades are an improveing of dairymen the topic usually rement on scrubs, due to the use of a solves itself into cooperative market- specialized pure-bred, while the pureing, or some phase of marketing, such bred is a highly specialized animal to as cooperative creameries, cheese fac- meet a certain requirement. In dairy associations. Occasionally one finds a tion. For the dairyman there are no group of dairymen discussing coopera- substitutes for pure-bred cattle, as

This fact dairymen are waking up side of it comes in. Dairymen starting The dairy cow is the real pioneer into the pure-bred business, select animal. It was the animal chosen by their breed of cattle usually on rec-

> of the breed to his particular market or location. Because of this many communities may be considered pure-bred communities, but with no particular breed as dominant. These localities are losing a wonderful opportunity. Buyers looking for a place to buy cattle usually pick those localities where they have the greatest choice of the kind of animals they want. Thus the localities of many breeds are generally overlooked, while the localities of one breed find ready sale for their cattle. In these localities of one breed of cattle the pure-bred business is the biggest and most paying part of the dairy game. While localities where many

urally to dairying devoted their entire be the main source of income. Thus attention to producing milk. This call- it is that dairymen are throwing away ed for a specialized animal for a spe- an opportunity for a paying industry by failing to cooperate on breed of

A splendid example of breed cooperthis last-named stage in dairy progress ation in Michigan is found in Livingso that when she was ready for a spe- ston county. Practically the entire cialized animal for producing milk county have adopted but one breed of there were already several standard cattle and buyers from all over the breeds of dairy animals to select from. world visit there yearly and take away Pioneers in dairying selected in many many carloads of cattle because they ways. Some merely worked with and are assured of a large number of the occasionally improved the native stock. breed they are looking for, to select

Some localities just starting into lected merely to be unlike their neigh- pure-bred stock are taking advantage bor. New families entering the com of the experience of others and are semunities usually brought with them or lecting the breed best adapted to their market and locality and are cooperatwhich they came. Thus it is that ing by all adopting the same breed. Michigan, which may be classed as a However, in a few localities dairydairy state, finds itself today with prac- men have gone one step farther tically no prospective system in regard than this and are not only adopting to dairy production. One can not help one breed for the community, but are but feel, however, that this condition selecting a particular and desirable is about at an end. Dairy farmers are family of that breed and all breed beginning to realize that it is to their along the same line. Thus, advantage advantage to use specialized animals gained by any one particular member if they expect to specialize in milk of that group of breeders is reflected on all the herds of that community It is quite evident that a jeweler and they all benefit by increased value does not use a sledge hammer or still- of their animals. A great deal is being son wrench to repair watches. Like- done along this line at the present

New Century
Thresher

Less Power

HINK of a thresher that is practically vibrationlessthat is so perfectly balanced that an 8-penny nail will stand on any level part of it while in operation! That is the Aultman-Taylor New Century.

You can spin the cylinder shaft of the New Century with your thumb and first finger. Hyatt Roller bearings used on the cyl-inder, in combination with many other advanced constructional features, make the New Century the easiest, smoothest running thresher on the market-and mean a saving of several horse power

Saves All The Grain

The Universal Rotary Straw Rack and Inclined Traveling Web used in the New Century absolutely prevent clogging, double the separating capacity and insure perfect separation. The rotary motion of the Universal Rack, moving parallel to the frame saves power, eliminates all wear, tear and vibration. The Sharpe Grain Saving Device prevents wastage of grain when thresher is not properly operated.

Aultman-Taylor New Century threshers are made in four sizes, all absolutely standard in design and construction.

See your dealer today. Or write in for our catalog and for complete information today.

Hyatt Roller Cylinder bearings effect a saving of several sorse power in operation of the machine and avoid any



The Aultman & Taylor Machinery Company Mansfield,





wise it is quite as apparent to the suctime by Mr. H. W. Norton, Jr., State constant that beef cattle and (Continued on page 547), (Continued on p

Brazil Hollow Brick and Tile Company

American CREAM SEPARATOR On Trial. Easy running, easily cleaned. Skims warm or cold milk. Whether dairy is large or and easy monthly payment offer. Address AMERICAN SEPARATOR CO., Box 5061 Bainbridge, N.Y.



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THE HOME OF

Imp. Edgar of Dalmeny

The World's Greatest **Breeding Bull**

Blue Bell, Supreme Champion at the Smith-field Show 1919, and the Birmingham Show 1920, is a daughter of Edgar of Dalmeny. The Junior Champion Bull, Junior Champion Female, Champion Cali Herd and First Prize Junior Heifer Calf, Michigan State Fair, 1920, were also the get of Edgar of Dalmeny.

A very choice lot of young bulls—sired by Edgar of Dalmeny are, at this time, offered

Send for Illustrated Catalogue.

WILDWOOD FARMS ORION, MICHIGAN

W. E. SCRIPPS, Prop.

Sidney Smith, Supt.

For Sale

Woodcote Trojan-Ericas

We are offering ten cows bred to either IMP. ELGHO OF HARVIESTOUN, or IMP. EDGARDO OF DALMENY Write for our 1921 BULL SALE LIST Woodcote Stock Farm,

REGISTERED Aberdeen-Angus. Ten heifers, six bulls from eight to fourteen months. Best of breeding, the growthy kind that make good. Reason-able. Inquire F. J. WILBER, Clio, Mich

CLOVERLY ANGUS

Cows and Heifers Bred to
Blackcap Brandon of Woodcote 2nd
For Sale
GEO. HATHAWAY & SON, Ovid, 1 Ovid, Mich.

Reg. Aberdeen Angus bulls and heifers from 6 to of breeding, also Berkshire Swine, boars ready for service and pigs both sex singles, pairs or trios, will accept Liberty Bonds.
RUSSELL BROTHERS, Merrill, Mich.

GUERNSEYS

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

Registered Guernseys a Three yr, old er calf born Feb. 1, for \$350. no relation to above for \$100. J. M. WILLIAMS, North Adams, Mich.

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

Guernsey Bulls of May Rose Breeding Their dams have records 420 to 650 lbs. fat also a few cows and heifers are offered.

H. W. Wigman, Lansing, Mich.

PEDERAL Inspected Guerhsey Bulls. Priced to sell.
Nine sold in 10 mos. A fine Masher Sequel 3 yrs.
old, sure, sound and right \$175.00. Four grandsons
of Ex-Champion A. A. cow, under 8 mos. old from cows
on test.
G. W. & H. G. RAY, Albion, Mich.

For Sale Six registered Guernsey bulls May Rose breeding ready for service. Cheap John Ebels, R. 2, Holland, Mich.

Reg. Guernsey bulls for sale cheap. State T.B. test-ted and from good producing and A. R.cows. Age 1 to 12 mo. C. E. Lambert & Sons, Linwood, Mich.

FOR SALE Guernsey bulls, old enough for light service.
L. J. BYERS, Coldwater, Michigan

For Sale Two young Reg. Guernsey Cows also bull calves.
Geo. N. Crawford, R. 2. Holton, Mich.

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

Holstein Friesian heifer and bull calves, purebred registered and high-grade. Price \$20 up. Splendid individuals and breeding. Write us your-quirements. Browncroft Farms, McGraw, N. Y

Reg. Holstein Bull Calf \$60 Reg and Del. J. R. HIOKS, St. Johns, Mich.

The Winwood Herd

1st will move their Herd of on Nov Pure Blood Holsteins to their new home, 13 miles south of Rochester, Mich. and for the next 30 days we will sell what bull calves we have cheap as we will be unable to get our buildings com-plete before winter. So get busy if you want a son of Flint Maplecrest Boy at your own price.

JOHN H. WINN, (Inc.)

Roscommon,

Blythefield Farms Settle your Herd Sire problem now by getting a thirty pound record pure bred Holstein bull calf from Blythefield Farms. Address JOSEPH H. BREWER, Grand Rapids, Mich.

Holstein or Guernsey calves, practically pure, 7 weeks old, \$25.00 each, crated for shipment anywhere. Satisfaction guaranteed. Bond Accepted, Edgewood Farms, Whitewater, Wis.

7 Bulls

15 Females

Southern Michigan Polled Shorthorn Breeder's Ass'n.

will hold

of Polled Shorthorns at the Branch County Farm,

Coldwater, Mich., May 5, 1921

The offering consists of 22 head of show and breeding cattle.

No factor is destined to play such an important part in constructive breeding as good animals backed with choice breeding.

Those in pursuit will find animals that will make good in any herd at home or abroad.

We cordially invite all interested to attend this saleas it will be a grand opportunity to get foundation stock as well as to build up and strengthen the blood lines of the older herds.

Write for illustrated Catalogue.

County Agriculturist, C. L. Nash, Sec. Coldwater, Mich. Geo. Burdick, Pres., Coldwater, Mich.



After doing official testing for 16 months I concluded that the Holstein cattle were the most profitable. As compared with other breeds over the route, the Holsteins were the only cows that made the farmer clear profits after feed and other expenses were charged against them.

Several cows cleared over \$100 a year. Write for free booklets.

The Holstein-Friesian Association of America 164 American Bldg., Brattleboro, Vermont

"Where the Champions Come From"

Offer special prices for days to Michigan dairymen on bull calves from tested dams, sired by Sir Clothilde Concordia or Flint Hengerveld Lad. Send for extended pedigrees and prices.

Pontiac State Hospital Pontiac, Mich.

Livingston County Holstein Association

Howell, Mich.

May 18, 1921 90 HEAD

Jay B. Tooley, President

Secretary

Four Handsome Daughters

of the 34 lb. show bull "Judge Joh. Lyons" and out of A. R. O. cows all for \$1200.

Also bull calves from the same sire from \$50 up.

Bulls ready for service from \$100 up.

SINDLINGER BROTHERS

Lake Odessa, Mich.

For Sale. Three reg. Holstein bulls, ready for service, well bred and good color. Prices in WM, BRINKMAN, Fairgrove, Mich.

Yearling Holstein bulls 2 light colored and large 301b, brieding on both sides, from 20 lb, heifers \$150 each. Dewey C. Pierson, Metamora, Mich.

USE PURE-BRED SIRES!

Estimates furnished by the Dairy Division of the United States Department of Agriculture show that the dairy cows of the country average only 4,500 lbs. of milk per year.

A good Holstein bull will increase the production of the ordinary herd 0 per cent in the first generation.

Let us help you find a good one to use on your herd. You cannot make a better investment.

The Michigan Holstein-Friesian Association

H. W. NORTON, Jr., Field Secretary, Old State Block, Lansing, Michigan

33.60 lbs. butter average of gddams of 8 mo. old cost of service. Liberty Bond or note.
M. L. McLAULIN, Redford, Mich.

FOR SALE 15 head selected stein young cows. 9 fresh, balance soon due. Heavy milkers \$100. A great bargain. Selling to make room for registered stock. J. E. Gamble, Hart, Mich.

Reg. Holstein Friesian cows will sell one or more. Regis and Pontiac breeding bred right and priced right from two to six yts. old come and see them or write. HENRY S. ROHLFS, R, 1, Akron, Mich.

"Top Notch" Holsteins

Buy a "milk" Bull of Quality from the Breeders of the world's only cow to produce 800 lbs. milk in 7 days, having an 800 lb. daughter.

Our herd is rich in the blood of Colantha, 4ths Johanna, the only cow that ever held all world's records revery division from one day to one year at the same time. She produced 651.70 lbs. milk in 7 days. We are offering for sale a bull, whose dam exceeds this record by over 7½ lbs. in 7 days.

His dam's records are:—

Milk 1 Days 659.3 lbs.

Milk 7 Days 659.3 lbs.

Butter 7 Days 25.31 lbs.

His name is

Butter 7 Days 26.31 IDS.

His name is
KING VALE CORNUCOPIA WAYNE, No. 312599
Born February 6, 1920
His dam and sire's two nearest dams average
Butter 7 Days 33.02 IDs.
Milk 7 Days 607.3 IDs.
Milk 7 Days 607.3 IDs.
Handsomely marked about one third white.
\$250.00 ft. o. b. Howell.

MCPHERSON FARMS CO.,
All herds under U. S. Supervision.

Howell, Mich.

Cluny Stock Farm

Cluny Konigen Colantha Silver 326205 Born May 29, 1920

A white bull with a few black spots.

His sire a 30 lb. son of King Segis Pontiac Konigen.

Sire's 7 nearest dams average 32.301 lbs, butter 624.1

ss, milk in 7 days.

His dam has a Jr. 3 year old record of 17.683 lbs, butter from 418.7 lb. milk and is a granddaughter of Colanta Johanna Lad.

2nd dam—a 21 lb. cow that our barn records show milk-orer 145,000 lbs. in 14 milking periods producing 15 calves.

Pedigree on application.
Price \$250.00. Federal Accredited Heard.

R. Bruce McPherson, Howell, Mich. for \$125.

The Traverse Herd

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

TRAVERSE CITY STATE HOSPITAL Traverse City, Mich.

For Sale Reg. Holstein Cow 4 yrs. old, fresh, price calf, three-quarters white, four weeks old \$35.
Arthur C. Moore, R. 1, Lawrence, Mich.

Registered Holsteins---bulls, heifers or cows always

Refor sale. Priced reasonable. Satisfaction guaranteed. Write or come, B. B. Reavey, Akron, Mich.

HEREFORDS

Cows with calves at side, open or bred beifers of popular breeding for sale. Also bulls not related.

Allen Bros. Paw Paw, Mich.

616 So. Westnadge Ave., Michigan Kalamazoo,

HEREFORDS

Two high class, registered bulls, nearly a year old, for sale. One double standard, and one with horns, good size, color, and markings. Both the making of show bulls.

COLE & GARDNER, HUDSON, MICH.

Again the Jersey Cow Proves Her Superiority as an Economical Producer of Butter

In a five year survey just completed at the Nebraska Agr'l College the Jersey produces a pound of butter cheaper than any of the other dairy breeds. Five breeds were represented; thirty Jerseys, twenty Holsteins, six Guernseys, seven Ayrshires, five Shorthorns.

Guernseys, seven Ayrshires, five Shorthorns. The Jerseys required 9.91 lbs. hay, 16.16 lbs. silagé, 8.69 lbs. concentrates for each pound of butter produced. Her nearest competitor required 13.86 lbs. hay 19.16 lbs. silage, 10.09 lbs. concentrates, for each lb, of butter. Nearly 4 lbs. more hay, 3 lbs, more silage, 1.4 lbs. more concentrates for each pound of butter than the Jersey required.

At present prices of feeds in Mich. Jerseys produced a pound of butter 6.5 cents a pound cheaper than nearest competitor, 7.7 cents cheaper than second nearest, 9 cents cheaper than furth nearest and 20 cents cheaper than fourth nearest competitor.

Jerseys produced one pound of butter for

Jerseys produced one pound of butter for 29.7 cents cost of feeds based on present Mich. prices. Think, Act.

BUTTER BRED JERSEY BULLS
CRYSTAL SPRING STOCK FARM,
Silver Creek, Allegan County, Michigan.

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

JERSEY BULLS Ready for Service, Raleigh-Oxford and—Majesty breeding. Meadowland Farm, Waterman & Waterman , Packard Rd., Ann Arbor, Mich.

Lillie Farmstead Jerseys Bull calves from R. of M. cows. Coopersville, Mich.

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

Meridale Interested Owl No. 111311 heads my herd bull calves from this great sire and out of R. of M. dams for sale. Leon E. Laws, B. 6, Allegan, Mich. Registered Jersey Bulls ready for service from high producing dams, R. B. FOWLER, Hartford, Mich.

Registered Shorthorns, Bulls and heifers. prices within reach of all.
G. R. Deshetler, R. 4, Tecumseh, Mich.

SHORTHORNS

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

BIDWELL STOCK FARM, Tecumseh, Michigan

Milking Shorthorns, bulls and helfers 5 mo. to a year old for sale at reduced prices to make room for younger stock.

E. H. KURTZ, Mason, Mich.

Stop! Look! Listen

Have you a catalog of the Shorthorn Sale to be held at M. A. C. Feb. 25th at 1 P. M. We are listing four valuable females and two show bulls.

Richland Farms, Tawas City, Mich. C. H. Prescott & Sons,

The Maple's Shorthorns

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

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

One Yearling Shorthorn Bull call for \$125, M. G. MOSHER & SONS, Osseo, Mich.



Whistling for "more grain" at threshing time always means plenty of power—power that's waiting for its load—full of pep—ready to keep the wheels turning and grain moving hour after hour until the job is finished. That's the kind of power your thresherman brings in his outfit hooked up to a

Nichols-Shepard Steam Engine

It is built by an organization with 73 years' experience—and specialists in building grain-saving threshing outfits.

Always on the job with steady, dependable power. Carries a high power reserve for the "peak load" caused by fast feeding or wet grain. If it has troubles they are easily remedied. Almost anyone can run it. No big fuel bills to pay. It delivers full power on almost anything that burns.

Hire a Nichols-Shepard owner to do your threshing. He'll save your time and grain. Write for Circulars.

Nichols & Shepard Co. (In Continuous Business Since 1848) Builders Exclusively of Red River Special Threshers, Wind Stackers, Feeders, Steam and Oil-Gas Traction Engines: Battle Creek, Michigan

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Write for the new Pyrox book—Bowker Insecticide Co.—Boston—Baltimore—Chicago.

CATTLE

Branch County Farm

Polled Shorthorn Cattle

Young Bulls For Sale Several well bred herd bull prospects.
GEO. E. BURDICK, Mgr., Coldwater, Mich

FIVE BRED HEIFERS that we will sell cheap if taken at once. Inquire about them or better come and see them. CARR BROS. & OO., Bad Axe, Mich

Reg. Red Polled cattle choice young buils from 6 to 18 mo. old for sale. FRANK KEBLER; R. 1, Grand Ledge, Mich.

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

Two Scotch-topped Shorthorn bulls for sale.
W. E. MORRISH, R. 5. Flint. Mich.

Peg. Red Polled bull calves, from 3 mos. to 1 year Loid, sired by Famous Charmer. 75% same blood as Oharmer 1919 International GrandChampion, Our head State and Federal tested. Westbrook Bros., Ionia, Mich

Brown Swiss Two registered bull calves for sale.
E. R. Sherwood, R. 4, Saranac, Mich.

HOGS

Berkshire Berd Sows and Gilts \$50 and up, for April, May and June farrow. Have a few good fall pigs at reasonable prices for sale, M. G. MOSHER & SONS, Osseo, Mich,

TO INCORPORATE SALES ASSOCIA-

HE leading breeders of Holstein cattle from the district surrounding Rochester, Michigan, met with their families in that city last week to enjoy a banquet and to take the first step in the organization of a sales company for the disposal of surplus stock and for the general promotion of the breed throughout the district. Breeders were present from Oakland, Macomb and Wayne counties. The vote was unanimous for the establishing of such a company and temporary officers were elected as follows: W. E. Wood, president; C. W. Melick, secretary; Fred M. Shinnick, treasurer; E. A. Hardy, John Rinke, W. E. Wood, F. M. Shinnick, Harry Maddelein, E. M. Bayne and E. H. Langworthy, directors.

Among the several inspirational talks given was an excellent address by Hon. D. D. Aitken, president of the Holstein-Friesian Association of America. He urged the necessity for organization; for the continuous improvement of breeding stock; for the production of better products from the dairy; for a more generous producersupport of a sane advertising campaign to care for surplus milk and to create a demand for quantities in excess of present per capita consumption; for individuals to forget petty differences and get together; for an aggressive championship of the boys' and girls' club work; for giving worthwhile assistance to the young breeder and for making the fullest possible use of the outstanding sires of the district.

COOPERATIVE DAIRYING.

(Continued from page 545). Holstein-Friesian Secretary, in his work to make Michigan a "Holstein-Friesian State." The same idea is being worked out by the extension department of the college through the boys' and girls' calf clubs and the establishment of pure-bred bull associations.—S. J. B.

MANTHE CONTRACTOR CONT

CONDUCTED BY DR. W. C. FAIR.

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

Impotent Bull.—I have a bull two years old that will seemingly serve a cow as well as any bull, but he fails to get any of them with calf. He served ten cows all summer, none of them Market him for beef.

Incurable Lameness-Chronic Indigestion.—Have a nine-year-old horse that has been lame for several years. Have blistered hock, stifle and hip many times, but treatment fails to help him. Stands with foot well under him results of the stands with foot well under him results of the stands with foot well under him results of the stands with foot well under him results of the stands with foot well under him results and have been stands and the stands with foot well under the stands with foot well under the stands with the st him. Following castration, hard bunch seemed to grow on end of cord and remain there. Do you believe this bunch pains him, causing soreness and lamepains him, causing soreness and lameness? Also have nine-year-old horse that has been out of condition for the past six months. All the work he does is to help haul one load of manure out into lot daily. C. H. F., Marion, Mich.

—The teeth of the nine-year-old horse may need floating. Give him thints. may need floating. Give him thirty grains of ground nux vomica and half ounce of powdered gentian in ground feed three times a day. The small tumor on end of cord of other horse should be cut out and cord released, but this will not cure his chronic lame-

Stringhalt.—About six weeks ago I purchased a five-year-old gelding which occasionally jerks up one hind foot. We believe he has stringhalt. J. W. F., Newport, Mich.—Medical treatment in his case will not help him and the operation, Peroneal Tenotomy, for stringhalt is not necessary, unless the warm weather fails to palliate his ailment, then have him operated on next

DISPERSION SALE

From cows with records up to 28 lbs. butter in seven days. Bred to a son of CARNATION KING SYLVIA from a three-fourths sister to SEGIS PIETERTJE PROSPECT World's Champion milk cow. Or to a son of Sir Prilly Segis from ORMSBY KORNDYKE ARMYN one of the test daughters of ORMSBY KORNDYKE LAD.

Sold with a sixty to ninety day retest privile e. Six months time on bankable paper. Bring bank reference.

For catalog address
Albert E. Jenkins, Sale Mgr. Eagle, Mich.

E. P. Kinney, Owner East Lansing, Mich.

C. HOGS

all ages sired by Callaway Edd 1918 world's grand champ. boar and C. C. Schoolmaster 1919 world's grand champion also Wonder Big Type and Giant Buster. Write your wants, all stock shipped on approval.

CRANDELL'S PRIZE HOGS.

Cass City, Mich.

Buy Pigs Now Registered Duroc pigs crated and delivered to express station for \$20 cach. Either sex or can furnish them unrelated to each other. These are late fall pigs sired by State Fair winners and weighing over 100 ibs. Write for particulars. Michigana Farm Ltd., Pavilon, Mich. **Brookwater Duroc Jerseys**

FALL BOARS OPEN GILTS All of the right type and the best of breeding.

Prices reasonable.

Mail orders a Specialty. Satisfaction guaranteed.

BROOKWATER FARM, Ann Arbor, Mich. H. W. Mumford, Owner J. B. Andrews, Mgr.

DUROC PIGS

either sex, ready to ship May 1st. Extra quality and breeding. The best purchases for Boys' and Girls' Pig Clubs of Washtenaw Co. in 1919 were from my herd. One boy refused \$125 for a male pig a few weeks after purchase. Price \$15 to \$20 reg. and transfered. Satisfaction guaranteed.

B. E. KIES, R. 5, Hillsdale, Mich.

DUROC JERSEYS

Bred gilts, service boars and fall boar pigs at Bargain prices. Your correspondence or personal inspection is cordially invited. RUSH BROS.. Oakwood Farm, Romeo, Mich.

Duroc Boars at bargain prices large growthy hogs 15 ter in the buyers name. Orders booked for Apr. pigto deliver June 1st. W. E. Bartley, Alma, Mich.

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

DUROC Jerseys. Boars for spring service, heavy boned type, from the most popular blood lines at reasonable prices. Partridge Rock eggs from best lay-ing strain \$2 per 15. Drodt & Berns, Monroe, Mich.



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

Phillips Bros, Riga, Mich.

Orion King No. 169259 Son of the \$10,000 boar owned by Longview Farm, Le Sumit. Mo. also, young boars ready for service out of good sows. Apply mich.

Duroc Jersey Sows and Gilts bred for March, April, May farrow Also a few spring boars. Best of blood lines and splendid individuals. Satisfaction guaranteed. Write for pedigree and prices, or better come and see, visit ters welcome. Thos. Underhill & Son, Salem, Mich

FEW CHOICE Bred gilts for Sale. Carey U. Edmonds, Hastings, Mich.

DUROCS Bred sows all sold. A few choice fall boars for sale.
W. C. TAYLOR. Milan, Mich.

Duroc Jerseys Am booking orders for spring pigs. Few fall gilts.
E. D. HEYDENBERK. Wayland, Mich.

E. D. HEYDENBERK. Wayland, Mich.

O. I. C. Swine Strictly Big Type with quallast of April, and May farrow. A few gilts bred for
fall pigs either sex. Extra good ones. Of our State
Fair prize winning blood lines. Will ship C. O. D.
and record them free. NEWMAN'S STOCK
FARM. R. 1, Marlette, Mich.

O. I. C. Gilts bred for April and May Shipped C. O. D. H. W. MANN, Dansville, Mich

O.I.C's Choice gilts for April and May farrow, also fall pigs. Booking orders for spring pigs.
A. J. BARKER & SON, Belmont, Mich

O.I. C's. 8 last spring gilts due to farrow in Mar. fall pigs, not akin, big growthy stock. Registered free. Citz. Phone 124, Otto B. Schulze, Nashville. Mich

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

DR. H. W. NOBLES, Sales Mgr.

O. I. C's. 2 sows for May farrow. Orders booked for March pigs.
C. J. THOMPSON, Rockford, Mich

0.1. C. Big type serviceable boars, weigh from 150 to 250 lbs. Gilts bred for May and June farrow Write for prices. G. P. Andrews, Masen, Mich.

Saginaw Valley Herd. Prize winning O. I. C's. Jan-and Feb. pigs, priced reasonable. J. Gibson, Fosters, Mich.

O. I. C's choice boars and spring pigs at farmers prices. CLOVER LEAF STOCK FARM. Monroe, Mich



HAVE started thousands of breeders on the road to my great her of in every community where I am not already represented by these fine early developers—ready for market at any months old, 6 Write for my plan—"More Money from Hogs."

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

SPOTTED POLAND CHINAS

Our herd boars Rio Grand Giant, a litter mate to the \$2100 Marshall Giant boar, his dam Arb-Osa, the largest sow of the Spotted breed. King Onward known as one of the greatest back and color breeders. English Back Builder, a wonderful breeder. 50 Last spring gilts bred for July and August farrow. 550 per head while they last. Fall pigs either sex, \$35. Will take orders for spring pigs for June shipment, either sex, \$25. Cholera immuned Satisfaction guaranteed. SAMUEL GERBER, R. 4. Bluffton, Ind.

Big Type Polands. Some very choice fall boars, ready for spring service for sale. They are streed by The Clansman: dam. the \$1025 Miss Columbia, a littermate to the \$40,000 The Yankee. Also a few choice boars by The Clansboy, son of The Clansman. WESLEY HILE, Ionia, Mich.

Spring boar pigs \$15 to \$25. Fall gilts sired by Harts' Black Price. \$30 to \$50. Also have two gilts which are granddaughters of the Yankee and were bred to Harts Black Price March 24th. They will go quick at \$50. HART, FULOHER & CLINE, address F. T. HART, St, Louis, Mich.

Big Type Polands. Bred sows all sold, but have some good herd boar prospects, fall boars weighing 175 lbs. Sired by the Arctic. Call or write PORUS HOVER, Akron, Mich

P.C. Bred sows. Fall pigs singly or in pairs. Also S. C. Minorca cockerels all big Type of the best of breeding. Satisfaction guar. R. W.Mills, Saline, Mich.

Francisco Farm Poland Chinas

Offering a dozen choice gilts and a few tried sows bred to such boars as Michigan Mastodon and Michigan Clansman.

P. P. POPE, Mt. Pleasant. Mich.

L. S. P. C. a few choice boars at farmers prices, bred gilts all sold. Also a grandson of The Clansman and Harrison Big Bob.

H.O. SWARTZ, Schoolcraft, Mich

Big Type P. C. some very choice boars double immune, out 1100 lb. sire and mammoth sows from Iowa's greatest herds, E.J. Mathews on, Burr Oak, Mich, Bg Type Poland Chinas at lowest prices. Both sex, all ages, and bred sows and gilts. G. A. BAUMGARDNER, R. 2, Middleville, Mich.

Large Type Poland Chinas. Nothing for sale at present.
A. A. FELDKAMP, R. 2, Manchester, Mich.

L.T.P.C. If you are loooking for something good, in bred gilts at a right price. Write W.J. HAGELSHAW. Augusta, Mich.

POLAND China Bred Sows and Gilts at bargain prices, also spring boars and fall pigs, either sex. CLYDE FISHER, R. 3, St. Louis, Michigan

Leonard's Big Type P. C. Sows bred to Orange Clansman, Fall boar pigs weigh 175 lbs. Real herd boar prospects. Call or write. E. R. Leonard, R. 3, St. Louis, Mich.

PINE GROVE HAMPSHIRES

We are offering a few tried sows bred for March and April farrow. These sows are all closely re-lated to our winning show herd and of popular blood lines, and the price! Way Down.! Geo. Coupar & Sons, Marlette, Mich.

BLES,
Coral, Mich.

Hampshires Bred gilts all sold. Spring and fall boar pigs at a bargain. JOHN W. SNYDER, R. 4, St. Johns, Mich.

MICHIGAN LIVE STOCK **INSURANCE COMPANY**

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

308 Davidson Building,

Bay City, Michigan

MESH WASH WHEEL VERN CITE BUILD WERM ON SIDE BU

GRAIN QUOTATIONS

Tuesday, April 19.
Wheat.
Detroit.—Cash No. 2 red \$1.32; May \$1.30; No. 2 white and No. 2 mixed

Chicago.—No. 2 hard \$1.34; No. 2 mixed \$1.38.

Corn.
Detroit.—Cash No. 3 yellow 62c; No. 4 yellow 59c.

Chicago.—No. 3 mixed 56½@56¾c; No. 2 yellow 57¼@57¾c. Oats.

Detroit.—Cash No. 2 white 41½c; No. 3 white 40c; No. 4 white 37c. Chicago.—No. 2 white 37½@37¾c.

Beans.

Detroit.—Immediate and prompt are lower at \$3.10 per cwt.
Chicago.—Market is easy and lower. Hand-picked beans choice to fancy at \$3.60@4.25; red kidney beans \$8.75@9.50 per cwt.
New York.—Market is dull. Choice pea \$4.35@4.40; do medium \$5@5.25; red kidney \$9.50@9.75.

Rye.

Detroit—Cash No. 2 rye \$1.35

WHEAT

Large primary receipts combined with a reduction in the export demand and the sentimental influence of the British labor dispute caused extreme weakness in this grain. The prospect for the new crop of winter wheat remains favorable, although evidence of damage from the Easter freezes was more prominent. Export buying failed to maintain the volume of the preceding week although our prices were below Argentine wheat much of the time. Reductions in wages continue with rail and steel workers apparently next in and steel workers apparently next in line for a cut. Northwestern mills have been buying Canadian wheat.

CORN

Favorable action by congress on the proposed emergency tariff give support to prices on Saturday. Stocks are large but are held by farmers instead of middlemen. Prices declined last week to new low levels but despite this farmers who have held are now selling, al-though bankers show more leniency toward farmers to whom they have made loans.

OATS

New low prices were recorded last eek. Buyers are taking only enough week. for immediate needs

SEEDS

Sales by producers to distributing markets are light. Imports of red clover during March were nearly 6,000,000 pounds and of alsike 1,600,000 pounds. Toledo.—Per bushel prime red clover \$13; 1919 prime timothy \$3; 1920 prime timothy \$3.10; prime alsike \$14.15.

half a cent per pound on the farms west of the Mississippi river.

HAY

Hay prices remain firm. Present Fair to good sheep prices are \$4@6 higher than in 1914 Culls and common

heavy, totaling about 500 cars per day. prices remain extremely high measur-New stock is now about 20 per cent of ed by the level of prices on other the total supply and is becoming a big-sources of meats. Quotations at Deger factor each week, otherwise the troit are: Eggs, fresh current receipts market is without feature. The mid-26c. Live Poultry.—Spring chickens dle western consuming markets are 30@32c; heavy hens 33@34c; roosters quoted at \$1@1.20 per 100 lbs for sack-18@20c; geese 20c; ducks 35c; tured northern round whites U. S. Grade keys 40c.

WOOL

Heavy sales of wool from pools of the 1920 clip were reported during the past week. It is stated that over 600, 000 pounds were sold from the Chicago warehouse where the Illinois and Iowa warehouse where the Illinois and Iowa \$4.50@6 for Baldwins and Greenings. warehouse where the Illinois and Iowa pools are concentrated, 50,000 pounds from the Michigan pool and that the Ohio pool has only 60,000 pounds left. Prices for pooled wool are: Half-blood staple 33c; half-blood clothing 28@29c; three-eighths-blood 26c; quarter-blood 24@25c. Woolen mills have large orders for cloth but are not buying as rapidly as they might, apparently in the belief that the price will not advance materially within the next two months. months.

BUTTER

Rye.

Detroit.—Cash No. 2 rye \$1.35.

Seeds.

Detroit.—Prime red clover, cash at \$12.50; April \$10.50; alsike \$14.25; timothy \$3.10 per bushel.

No. 1 timothy \$20@21; standard and light mixed \$19@20; No. 2 timothy \$18@19; No. 1 clover mixed \$17@18; No. 1 clover \$15@16; rye straw \$13@14; wheat and oat straw \$12@13 per ton in carlots at Detroit.

Large primary receipts combined with a reduction in the export demand to the first markets have been nervous during the past week, both buyers and sellers being anxious to operate only from hand-to-mouth. Actual receipts increased slightly but prices of the week when the New York market declined sharply because of the fresh arrivals of Danish and California butter. Other markets declined in sympathy with the change at New York. Prices for 92-score butter as quoted by the bureau of markets on April 16 were: Chicago 46½c; New York at 45½c; Boston 47c; Detroit 44½c.

APPLES

CHEESE

Cheese markets changed little after the first session last week, but the undertone is not strong. Country mar-kets again declined and lower quotakets again declined and lower quotations are expected again during the present week. Dealers desire to clean up their stocks but price concessions are necessary. Some small export orders, especially for Twins, appeared but were not large enough to turn the tide. Held cheese sold at practically unchanged prices. No. 1 American cheese is quoted by the bureau of markets on April 16 as follows:

Chicago.—Flats 19c; Twins 18@19c; Single Daisies 19¼@20½c; Double Daisies 19@19½c; Young Americas 21c; Longhorns 20@21c; Square Prints 21c per pound.

21c per pound. New York.—Flats 28@29c; Twins 27½@28½c; Single Daisies 27½@28½c; Young Americas 27½@286c.

COMING LIVE STOCK SALES.

Holsteins.-East Lansing, E. P. Kin-

Polled Shorthorns.—May 5, Southern Michigan Polled Shorthorn Breeders' L. Nash, Secretary, Coldwater,

C. L. Nash, Secretary, Coldwater, Michigan.

Guernseys.—May 10, F. E. Fox, Sales Manager, Eau Claire, Mich.

Holsteins.—May 18, F. J. Fishbeck, Howell, Mich.

Holsteins.—May 18, Livingston County Holstein Association, J. G. Hays, Secretary, Howell, Mich.

Live Stock Market Service

Wednesday, April 20.

DETROIT

Cattle.

	Heavy cattle 25@35c low	er and	ve
	dull; others steady.		
	Best heavy steers\$	8.25@	8.3
	Best handy wt bu steers	8.00@	8.5
	Mixed steers and heifers	7.00@	8.0
	Butchers	7.00@	7.5
	Best cows	6.50@	7.5
	Butcher cows	4.50@	78.5E.X.G
0	Common cows	3.50@	
	Canners	2.50@	
	Best light weight bulls	6.00@	
	Bologna bulls		
į	Stock bulls	4.00@	5.0
	Feeders	7.00@	7.5
	Ctoolsons		
	Stockers	5.00@	
	Milkers and springers\$	45@	9
	Veal Calves.	A STATE OF	
	Market steady.		
	Best\$1	1.00@1	12.0

Market 25c lower. Best lambs

Bulk of sales \$8.15@9; tops at \$9.20; heavy 250 lbs up medium, good and choice \$8.20@8.55; medium 200 to 250 lbs medium, good and choice at \$8.45@8.85; light 150 to 200 lbs common, medium, good and choice at \$8.70@9.10; light lights 130 to 150 lbs common, medium, good and choice at \$8.75@9.10; dium, good and choice at \$8.75@9.10; heavy packing sows 250 lbs up smooth \$7.10@7.90; packing sows 200 lbs up rough \$6.85@7.10; pigs 130 lbs down medium, good and choice \$8.50@9.

Sales by producers to distributing markets are light. Imports of red clover during March were nearly 6,000, 000 pounds and of alsike 1,600,000 pounds. Toledo.—Per bushel prime red clover \$13; 1919 prime timothy \$3; Feeders 7,00@ 7,50 \$1920 prime timothy \$3.10; prime alsike \$14.15.

FEEDS

By-product feeds from flour mills continued to decline during the last week influenced by lower prices for centers of production and standard middlings down to \$14 per ton in car lots. These prices are lower than corn and oats at terminal points but the feed grains are bringing only about half a cent per pound on the farms

Sales by productors (common cows 2,50@ 3,50@ 4,00 medium, good and choice \$8.50@9. Cattle.

Best light weight bulls 6,600@ 7.00

Continued 5,20@ 5,70

Light weights steady to weak. Beef steers medium and heavy weight 1100 lbs up choice steady to weak. Beef steers medium and heavy weight 1100 lbs down good and choice at \$8.25@9.40; do common 3,70%,750; light weight 1100 lbs down good and choice at \$8.50@9; cows common, medium, good and choice \$5.50@9; cows common, medium, good and choice \$5.50@9; counters and cutters cows and heifers \$2.25@ 100 medium and seal terminal points but the feed grains are bringing only about half a cent per pound on the farms

Sheep and Lambs.

Market 25c lower.

Market 3,50@ 3,00

Light weights deady to strong; others steady to weak. Beef steers medium and heavy weight 1100 lbs down good and choice at \$8.75@ 3,50 down good and choice \$5.50@ 9; common, medium, good and choice \$5.50@ 9; common, medium, good and choice \$5.50@ 9; common, medium, good and choice \$5.00@ 5; down good and choice \$5.00@ 5; down good common, medium, good and choice at 9.25 \$7@8.25; stocker steers common, me-

the movement of hay from producing sections but prices have shown very little change in the past two weeks. Stocks from the 1920 crop are known to be large. The new crop is expected to be ready earlier than usual if the weather conditions do not change.

BUFFALO

Yorkers and pigs steady yorkers \$9.75

@10; pigs \$10.25; other grades of hogs are 25c lower; clipped lambs bring \$10.25; do 85 lbs up medium, good, choice and prime \$9.50@11.25; do 85 lbs up medium, good, choice and prime at \$8.50@10.75; do culls and common at \$7.75@10.75; do culls and common at \$7.75@10. Stocks from the 1920 crop are known to be large. The new crop is expected to be ready earlier than usual if the weather conditions do not change.

POTATOES

Potato markets are slightly firmer holdover 4,007. Market active and 10 wethers medium, good and choice at although shipments are comparatively @25c lower; light weights off most.

Stocks from the 1920 crop are known \$10.25; calves \$12.50.

CHICAGO

Hogs.

Estimated receipts today are 21,000; cull and common \$2.25@5; yearling wethers medium, good and choice at \$6.75@8.

COMING MEETINGS.

May 3-4.—National Dairy Marketing Conference, Congress Hotel, Chicago. Illinois.

For Good Orchards

Four Leaf Phosphate

Too often fertilization of orchards is overlooked. Yet fruits take most valuable salts from the soil, particularly needing phosphates for their development and flavor. An orchard can not be better fed than by applications of rock phosphate and sowing of clover with a crop of buckwheat. The roots of buckwheat attack and make the phosphate available to the clover. The clover roots are developed quickly where there is an abundance of phosphorus and carry plant food deep into the sub-soil, storing nitrogen as well as phosphorus. This means food for the tree roots and fruit growth. The buckwheat should be cut for a mulch, and the clover turned under late in the fall when the nutrition has been stored in the roots for the next season's growth.

Write us for prices and the name of your nearest dealer in Four Leaf Phosphate.



THOMSON PHOSPHATE COMPANY 721 Fisher Building

Use Dandelion **Butter Color**



Add a half-teaspoonful to each
gallon of winter
cream and out of
your churn comes
butter of golden
June shade to
bring you top
prices. prices.

DANDELION Butter Color

Butter Color
All stores sell.
35-cent bottles,
each sufficient to
keep that rich,
"Golden Shade" in
your butter all
the year round. Standard Butter Color
for fifty years, Purely vegetable. Meets
all food laws, State and National. Used
by all large creameries. Will not color
the buttermilk Tasteless.
Wells & Richardson Co., Burlington, Vermont.



Write for the new Pyrox book—Bowker Insecticide

12 choice named varieties \$2.00 \$1.00 The Stock That Wine 1st Prize At The MICHIGAN STATE FAIR EACH YFAR BAUMAN'S DAHLIA GARDENS, Birmingham, Mich. Send For Catalogue

SALESMEN Wanted to sell well-known line ing materials direct to farmers. Men average from \$100 to \$200 per week. Commissions paid weekly. Bonnses monthly. Wengard made \$430 in one week-Meyers took 102 orders first month. Fine opportunity for livewire salesmen. Shipping points—Cleveland. Chicago, Kansas Gity, Minneapolis. For proposition write Central Petroleum Company. Cleveland. Ohio



Then It's Genuine

Unless you see the name "Bayer" on tablets, you are not getting genuine Aspirin prescribed by physicians for 21 years and proved safe by millions. Always say "Bayer."

Aspirin is the trade mark of Bayer Manu cture of Monoaceticacidester of Salicyicacid.





Has Imitators But No Competitors

A Safe, Speedy, Positive Remedy for Curb, Splint, Sweeny, Capped Hock, Strained Tendons, Founder, Wind Puffs and Lameness from Spavin, Ringbone and other beny tumors. Cures skin diseases or Parasities, Thrush, Diptheria. Removes Bunches from Herses or Gattle.

As a Human Limiment and Antiseptic for external use it is invaluable.

Every bottle of Caustie Balsans sold is war-ranted to give satisfaction. Price \$1.75 per bottle. Sold by druggists, or sent by parcel post, with full directions for its use. Send for leseriptive circulars, testimonials, etc. Address The Lawrence-Williams Co., Cleveland, O.

Far Tags 99 F.S.Burch & Co.145W. Huron St Chica

TO ESTABLISH LIVE STOCK COM-MISSION HOUSE IN DETROIT.

A T a meeting of the managers of the local associations of the Michigan Live Stock Exchange, held in the city hall, at Lansing, April 7, it was voted to establish a commission house at Detroit. At a meeting of the board following the managers' meeting, Mr. N. W. Stuart was chosen to sell the stock. Mr. Stuart is a very successful local manager at Clarksville, also the treasurer of the State Exchange. Each share of stock is to cost one hundred dollars. The plan as outlined is to have each local association take one or more shares of this stock, thus making them all interested in the propo-

A RECORD MILK YIELD IN FRANK-ENMUTH.

THE six-year-old Holstein cow, Pietertje Johanna King Hengerveld, owned by Conrad Hecht, produced in seven days recently, 33.991/2 pounds of butter from 746.4 pounds of milk, and in thirty days produced 141.51 pounds of butter from 3,010.8 pounds of milk. In one day she gave 113.8 pounds of milk.-M.

HIGHWAY LEGISLATION AT LAN-SING.

R URAL highways have come in for no small amount of consideration during the past week in the legislature. Among all of these various bills, three are of special interest to those who live along and travel on the country roads. One of them is Representative J. E. Warner's bill to prohibit any truckload of over twelve tons or over the rated capacity of the truck from traveling on the public highways. An exception is made in the case of trucks of two tons or less rated capacity when equipped with pneumatic tires.

A second bill requires all buggies, carriages, or wagons traveling after nightfall on village or city streets or on a trunk line highway to be equipped with lights. Both of these bills have now passed both branches of the legislature and await the governor's signature. A bill which has passed the senate but not the house would prohibit placing advertising signs within the limits of any public highway or on the private property of another without obtaining the consent of the owner.

STATE PAYS FOR BLOWN-UP COW.

NEW JERSEY farmer will get A \$125 from the state for his heifer, which was killed by eating a stick of dynamite left carelessly on the roadside by employes of the state highway department.

WOOL DEALERS MEET.

THE spring meeting of the wool buyers held in Detroit recently was notable for the failure of the usual attendance of eastern buyers or mill rep-There was no informaresentatives tion or advices for guidance from outside, and the buyer was left to his own resources. Some dealers had taken in small lots of wool and some few sales of last year's stocks had been made at very low prices. The consensus of buying views was twelve to thirteen cents for rejects, sixteen to eighteen cents for medium staples, with twenty cents as an outside figure for the de-

The general feeling was one of extreme conservatism, if not of apprehension, that conditions might become worse. The benefit of a tariff was discounted by heavy importations already made. The farm bureau wool hand-ling was considered the salvation of the dealer for the 1920 clip because prices slumped before these could have unloaded, and the losses would have been heavy. The margin for safety for the 1921 clip must be sufficiently wide to meet present conditions of the market.—J. N. McBride.



Keep Cream Cool on Long Shipments

Ship your cream in Sturges Refrigerator Cans—special heat and cold proof insula-tion between heavy outer and inner walls. No icing needed. Keeps contents safely ten to twenty-four hours even in extreme hot weather. Built to stand abuse. Write for Booklet No. 122

STURGES & BURN MFG. CO.
Makers of Sturges Guaranteed Capacity Milk Cans
Chicago
Illinois



Beach-

Made by Troy's Master Crafts-men for the Man of Today.

I DEWE SOFT COLLARS

are dignified, comfortable and give long wear-made for the man who demands standard-value merchandise—attractively priced. Your dealer is showing the latest styles.

HALL, HARTWELL & CO., Makers, Troy, N. Y.

Northeastern Michigan Lands and Farms

No. 91 O.—A farm of 160 acres 1½ miles from Onaway, Michigan. Level, no waste land, 135 acres under cultivation, rest pasture and wood, woven wire fence food grain and stock farm. New 9 room house, furnace, toilet, and bath, laundry house, large bank barn 100 ton silo, implement shed, granary, garage Young orchard. Near school, R. F.D. and telephone No. 92 H.—800 acres, productive well located, suitable for live stock. Near school and railroad. Federal highway building.

No. 93 R.—300 acres on main highway, 12 miles from Alpena, also within 2 miles of the D. & M. and B. C., G. & A. Raitroads. 6 room house, basement, barn, 2 good wells, Especially adapted for raising potatoes and onions. Large storage cellar 32x150 ft. Small apple orchard, all bearing. Price \$40.00 per acre. apple orchard, all bearing. Frice \$40.00 per acre.

No. 28 B. -1200 A. Ranch, good water and feed. School house on property. 3 miles woven wire fence. Stock loading pens of M. C. R. R. adjacent to property. \$12.00 per acre for quick sale.

No. 28 B. -Large two story Hotel, good location.

No. 34 D.—880 acres of Sugar Beet Land. Can be subdivided into 40 or 80 acre farms. Situated near Twining, Arenac Co. \$25.00 per acre.

No. 35 E.—120 acres, 50 cleared. Rolling clay loam soil, 4½ miles from Station on proposed stone road. 6 room house, barn, 90x70, large silo, granary, garage, wood shed, orchard. \$38.00 per acre. Terms.

No. S7 A. -58 A. 20 A. improved balance brush; running stream, flowing well, house, barn, clay loam, near school and church, Telephone, mail route. Price \$1200.00, terms to suit purchaser. No. 90 S.—Bargain to close an estate. 2360 Acres Farm and Ranch Land on State Trunk Line Gravel Highway. 300 acres cleared, with houses, barns, silo, farm machinery. Bearing orchard.

N. E. Mich. Bureau Bay City, Michigan



ENGINES

Two 7 H. P. Gray Stationary Engines for the Farm or shop, used only two months, \$125.00 each. Kurtz Paper Box Co. __ 219 Larned St. W. Detroit, Mich.

R. K. TIRES are O.K. Tires

Retreaded—double tread—double chain stitched. Stand up to the roughest sort of usage —built for hard work on bad roads, and come up to every demand you make on them. Each one guaranteed—even at these little prices:

Size	Price	Size	Price
30x3 30x3½ 32x3½ 31x4 32x4	\$ 6.50 7.50 8.00 10.00	33x4 34x4 34x4½ 35x4½ 36x4½	\$10.00 10.50 12.00 12.00 13.00

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

Annual White Sweet Clover Guaranteed Seed of the Hubam or Hughes Variety

Makes growth in one season that ordinary clovers do in two, Yields under cultivation two tons hay or 300 to 800 pounds of seed. Price \$1 for trial package or \$10.00 per pound. A pound will seed an acre, Make a big profit growing seed for yourself and neighbors. Order before small supply is exhausted from The Henry Field Seed Company; Shenandoah, Iowa, or direct from The Grower Who Guarantees. The DeGraff Food Company, DeGraff, Ohio.

Soy Bean Seed, early brown variety 93 to 100 per cent test. \$6.00 per 100 lbs. Bangor, Mich.

HAY Apples, Potatoes Wanted Highest The E. L. RICHMOND CO., Detroit, Mich

HAY Ship to The Old Reliable House Daniel McCaffrey's Sons,

623-625 Wabash Bldg., Pittsburg, Pa. Certified Russett Rural Seed potatoes for sale \$1.00 per bu. F. O. B. Manton, Mich. J. V. HARRISON. Manton, Mich.

"Tobacco" Kentucky's pride. Kich, mellow chewing 10 pounds, \$3.50; mild smoking, 10 pounds, \$2.50, prepaid. John Sanderson, Box 72, Mayfield, Ky.

Kentucky Tobocco, NATURAL LEAF; smoking ing, 10 lbs. \$3; 20 lbs. \$5. R. F. Veal, Sedalia, Ky. Agent

Strawberry Plants Wanted 30,000 or more, mostly Dunlap, of pure strain varieties. No high prices considered. JAMES M. KING, Good Hope, O.

ENATOR DUNLAP Strawberry Plants at \$3.50 Dept 1,000; \$2.00 for 500; \$1.00 for 250. Guaranteed first class or money refunded. C. H., STANLEY, Flower View Farm, R. 2, Paw Paw, Mich.

Choice Strawberry Plants \$3.75 per 1,000 varieties at \$4. Guaranteed first class or money refunded. Catalog. FILENA WOOLF, Allegan. Mich.

Strawberry Plants Red and Black Raspberry plants write for price list.
GEO, B. OW ENS. Box 353, Leslie, Mich.

Choice Dahlia Tubers and Gladiolus LUCY O. HARROW, Clarksville, Mich.

Farms and Farm Lands

265 Acre Dairy Farm With
4 Horses, 17 Cows and
Heifers, 3 calves, machinery, vehicles, tools, hay
loader, dairy utensils, equipment, etc.; convenient
advantages; 150 acres tractor-worked; 30-cow springwatered pasture; 300 cords 4-ft. wood, 350,000 ft. timber;
12-room house, running spring water, 100-th sam, silo;
woman owner to sell before planting, \$7000 lakes all,
about \$2500 down easy terms. For traveling directions
see page 27 Illus. Spring Catalog 1100 Bargains. FREE.
STROUT FARM AGENCY, 814 BO Ford Bidg., Detroit, Mich.

Poultry Yards For Sale

9 pen poultry house and feed barn with pure bred stock with many blue ribbon winners and state cham-pion pen. Living quarters 20x30 with full attic, ga-rage, automobile, Incubators and many articles to numerous to mention. Going south reason for sell-ing. \$5500 half down or \$5,000 cash. E. A. HOFF-MAN, Box 575, Halfway, Mich.

FOR SALE - Opening a new tract of fer-tile farm lands well located in the great potato and dairy district of Wisconsin and Michigan. Secure first choice new. Liberal terms. Write for free booklets, etc. Sanborn Com-pany, No. 29, Sanborn Bidg., Eagle River, Wisconsin.

Farm For Sale 80 acres good clay outbuildings. 25 acres meadow, three miles from Wayne, near Cement road, price \$14,00.00 one-half cash.

Thomas A. Jamleson, Wayne, Mich.

Homeseekers Chance 40 acres rich farm with \$100 or more down Balance 10 years. Roads, railroads and cities established. See us before buying; Staffield Brothers, 15 Merrill Bldg, W. Saginaw, Mich

S Poultry, truck, stock, and grain farms cheap.
FIGGS & NOCK, Salisbury, Md. FARMS

Wanted to Hear from owner of land for sale.

O. K. HAWLEY, Baldwin, Wisconsin.

DOGS

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

SHEEP.

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

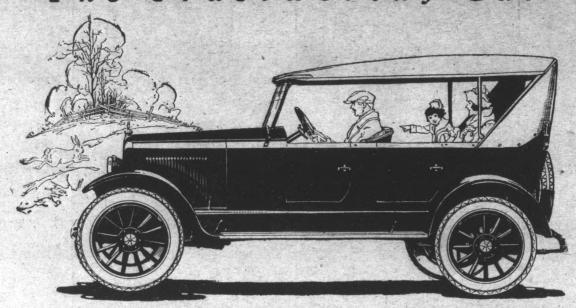
HORSES

Percheron Stallions and mares at reasonable prices; inspection invited.

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

One Two Year Old Mammoth Jack for sale or trade, what have you.
E. L. WAFFLE, Tekonsha, Mich.

BRISCOE The Trustworthy Car



A Direct Statement—and a Challenge

The farmer has grown tired of the one-feature car—the car that plays up one point of satisfaction to the exclusion of all others. It is not safe to judge a motor-car merely by an unusual motor—a freak spring suspension—the winning of

a race—a stunt or an unproved departure from standard design. A car should be good in everything.

Every feature of desirability must be taken into consideration. And that's why we make this positive statement.

5.

The 1921 Briscoe Is the Best Car Built Today

and we will prove it

What Combined Qualifications Make the Best Car

Let's put them down, and give each one the value to the average purchaser as shown by careful analysis taking 100 points for all.

1. Reliability

Engineering efficiency	A.	6	
High-grade materials		7	
Accurate workmanship		6	
Balanced design		4	23

2. Power Ample power in relation to

3.

weight for speed, hill and road- ability, without costly excess	15	15
Economy of operation		
Gasoline and oil consumption	14	

4. Appearance and Convenience Style 11 Comfort 11

get per dollar

Comfor		0.75		11	
Ease of	operation		The X	5	
Price					
Based, c	f course.	on who	t vous		

Now take the 1921 Briscoe and measure it against perfection

Low cost of maintenance

1. Reliability

The 1921 Briscoe is a car light in weight, yet possessing the maximum of strength. This has meant the development of special steels; it meant the purchase of hundreds of thousands of dollars worth of machinery—much of it specially designed—so that we could make all the essential parts of the car in our own great plants. And it means now 100 per cent plus in sturdiness, strength and durability.

2. Power

The Briscoe has a remarkable reserve of power that carries it almost without effort wherever wheels will track. Hills that make most cars overheat and drop back to second speed are taken on high, with never a trace of motor-labor or boiling. Sand and mud have no terrors for the wonderful power-plant. You can readily prove this for yourself in a demonstration spin.

3. Economy of Operation

The Briscoe motor is world-famous for low fuel consumption. Owner's records of 20-25 miles to the gallon are the usual thing. The amount of unaprung weight has been so reduced and the car so perfectly balanced that tires seem almost everlasting. And the chassis is so simple and sturdy that few adjustments are necesary, and those are easily made.

4- Appearance and Convenience

It was Briscoe who originated the idea that beauty is not a matter of dollars and cents. Briscoe, too, first realized that comfort was just as essential in the lowpriced ear as in its expensive brother. That is why, today, you can ride all day in a Briscoe over country roads without feeling tired. And a child can operate it.

5. Price

That means not alone the actual number of dollars you pay, but what you get for each dollar. Briscoe today gives you more automobile value and more automobile satisfaction per dollar than any other car on the market, bar none.

We Challenge a Comparative Test

To any car, and all cars, we make this definite challenge. Taking the points of motor-car satisfaction indicated above, we will enter the 1921 Briscoe in a series of competitive tests, with the American Automobile Association or any other impartial motoring organization as the judge. The tests are to involve a thorough try-out of every car on every point, and each car is to be given a comparative rating by the judges on each test. Sounds fair, doesn't it?

And to every motor-car buyer we offer the same opportunity for the most thorough test. Go to the nearest Briscoe showroom and study the car; let the dealer demonstrate in any way you wish. Give him a chance to prove our statement—the 1921 Briscoe is the best car built today. And remember that the 1921 Briscoe price for open models is only \$1285, f. o. b. factory. Most car per dollar and most satisfaction per dollar—that's Briscoe. Free booklet mailed on request.

BRISCOE MOTOR CORPORATION, JACKSON, MICHIGAN