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Small Fruit for the Average Farmer.

Y experience with the small fruit business and also with farming the better they are satisfied. homes in all parts of the country are faction and comfort than any other so teaches them the value of time at of blackcaps are found on the market piece of land of like area on the farm. A good fruit and vegetable garden

not only takes a comparatively small amount of time in proportion to its value, but an excuse in this line often stands between the family and some purchased material of this type for the simple reason that "we have a garden of our own."

Some members of many farm families have time that can be used to advantage in some line of garden work if they are given a little encouragement. Work in the small fruit garden is usually very fascinating if efficiently done. A small tract of land made rich and receptive to good varieties of small fruit and protected from the intrusion of poultry and other farm stock becomes a great item of delight as well as pecuniary value to the farm

Fruits are much cheaper and far more sanitary than drugs and while the American people are becoming celebrated as habitual dopers it is not a line that is solving the problems of life more than to emphasize the crying need for a better balanced ration for the average family. Fruits are cold pack method so thoroughly and tle expense. practically worked out by Prof. Ben-

By CHARLES B. COOK. less they can do with this branch of market to splendid advantage. Many grown to perfection.

the average farmer takes towards this ery day in the year, and extra mate- to the small fruit business and fruits subject, leads me to believe that the rial can be worked up for the home of the very highest quality can be

Starting with strawberries, the War-Be that as it may, the average farmer demonstrating the value of home can-field and Dunlop for early, and Aroma does not have the variety of small ning from the commercial end of the as a late variety, will give a lot of fruits on his table that is his family's lever and many boys and girls in can-high-class berries for a long season. due, nor could he invest a few hours ning clubs or under the direction of A row of ever-bearing sorts can be set each summer to better advantage elders in the home are maiking splen- if desired, and berries in the fall of than in a line of this kind where a did revenues in this line. The system the year can be easily grown. Folsmall area carefully planned and ex- eliminates waste on the farm, furnish- lowing this class of fruit, black and ecuted properly can be made to pay a ing an enjoyable occupation to the red raspberries are popular and well much larger revenue per acre in satis- younger members of the family and worth while. A lot of good varieties

Strawberries Should Have First Place in the Farm Fruit Garden.

an age when good habits of industry and for reds, I suspect the old-fash-

Washington, for the home at a nomi- quality should be grown. In Michigan had on all hands. Currants and goose- contend with innumerable obstacles

well formed are worth a fortune for ioned Cuthbert still holds its own as ize his ideals. There certainly is nothamong the most healthful articles of the work of tomorrow. This system a favorite with the masses. Blackber- ing bad in planning for something betalso cuts out the long gap between the ries must have a place in this home ter than that which we already posand where grown at home they come producer and consumer and makes it garden if we would get the best from sess, hence we are always wishing for possible to get these home-made pro- our efforts and hardy varieties of good something better. Sometimes we get dition if we do our part. Under the ducts of freshness and quality direct quality should be selected. Varieties it and sometimes we do not. But it is present system of canning fruit by the from the soil to the consumer with lit- that appeal to me as worthy of trial the ones who never plan, and have no are Snyder, Taylor, Ancient Britton, ideals in their farming, that are con-A succession of fruits is always and Eldorado. Many others of special tinually and steadily going down hill. son, of the Agricultural Department at worth while, and only those of high quality for special localities are to be

home garden. They cost little, and the attitude in general which had in the best possible condition ev- climate that becomes ideally adapted time the worms and mildew can be easily controlled in the home garden for the area is small.

The common varieties so generally sold on the market at this time are to be recommended in general. They all have more or less admirers, so I hesitate to select any special ones in this

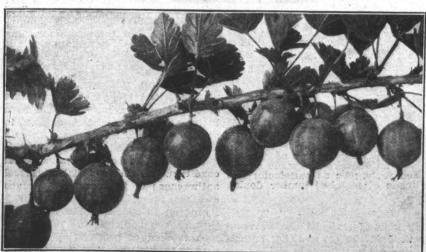
This whole fruit plant, after having been grown one year, can be heavily mulched down with straw or other coarse litter, and can be maintained with a surprisingly little amount of care, save to see that the mulch is renewed when necessary to keep out grass and weeds, to keep the vines properly trimmed and the fruit picked. This last operation is not a very great hardship as a rule, but in cases where this essential operation is neglected we would advise the operators to go out of this line of business as we fear the fruit plant might be condemned as a failure.

(The twenty-sixth of 52 special articles to be published in consecutive issues.-Eds).

OUR IDEALS IN FARMING.

Everyone who owns or improves a farm has an idea of how he would like to have that particular farm look, and of the magnificent crops he would like to see growing upon it, of the bountiful supply of choice fruits, vegetables, etc., for family use, and a hundred other things of like character. Accordingly he plans for big crops, plenty of money, a good comfortable living and an improved appearance of his farm and the farm buildings. In a word, he plans to real-

It is true that the farmer has to nal expense, fruits of this kind can be the splendid lake front has made us a berries must have their place in the that come between him and his ideals.





A Succession of Bush Fruits will Furnish a Healthful Addition to the Dictary and the Surplus May be Made to Pay the Cost of Production.

his ideal crop. But what happens? The seed fails to germinate, or the frest nips the young plants. Cutworms come along and get their work accomplished in great shape, potato beetles make their appearance, and later comes blight and rot. At the end of the season the farmer finds that instead of his ideal crop, he has one of the poorest he ever grew.

But notwithstanding all these obstacles, we farmers must not get "down in the mouth," but stick to our ideals-even if we never reach them -we will be better off for it some day. It is a very old saying that "he who aims at the sun, although he will not hit it, his arrow will fly higher than if he aimed at something on a level with himself." So it is best for us to form our ideals and do all that we can to realize them. This applies to the general business of farming, the appearance of the farm and its buildings, as well as the growing of crops. Form your ideal of just how you want your place to look and then as you have the means and opportunity get to work and invest in accordance to the plans you have mapped out. There is no greater asset on the farm than originality. Unless you have the ready money with which to hire labor it may be a somewhat slow process, but don't worry about this, do a little this spring, more next fall, and what you can next winter, always keeping your idea in mind and if you never fully realize it, your farm, at any rate, will be much improved and you will certainly be paid in some manner for your efforts.

In forming our ideals they must be based upon good common sense. It is never a wise plan to form ideals which we know we can never accomplish. It has been said, "there is reason in all things," and ideals are no exception to the rule.

If we want to grow good crops, if we want to have a fine thoroughbred herd of cattle, if we want to raise poultry successfully, or any other branch of farming that we want to specialize in, the first and most essential thing to do is to form our ideals and then go about the work cheerfully and it won't be long until we begin to realize that we have been fully paid for the efforts put forth.

H. W. SWOPE.

A PLAN FOR DRAGGING LAND.

The first time that a plowed field is dragged, it is a good plan to follow the furrows. After that, in order to work the land down into a good seed bed, one may follow any plan he chooses, but the "herringbone" method is considered by the many farmers who use it to be the most convenient of all.

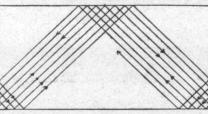
By this method, the dragging is done in a zigzigging direction, diagonally back and forth across the field. Suppose, for convenience of discussion, that a field twice as long as wide and with the greater length extending east and west, is to be dragged. The teamster starts in the southwest corner, and drives to the middle of the he turns to the southeast corner. Here parallel to his retraces any angle greater than 90 degrees will product of coal tar called creosote. be required. When the work is comged twice.

The same method may be adapted onal, always making turns of 90 de- bers are much better for treating than viding it is made essentially air-tight. ed seed.

posite diagonal will be traversed.

Among the advantages of this methfacing is required, the horses are spar- The butts are placed in a tank of hot ed the chafing of legs against tugs. Incidentally, a saving of time results; dragged back and forth as compared zigzagging found that the first method took two days while the last took but a day and a half.

Then, too, the field after being dragged in this manner is in condition for



marking out the land for corn, potatoes, etc., to the best advantage, since the diagonal direction of the marks of the drag teeth will retain a line left by the marker, without any possibility of confusion of the two.

It is also claimed by those who have tried the herringbone method that the land along the fence row is put into as good tilth as almost any other part of the field. This is because of the fact that the horses and drag do not need to stop at the fence, and that the drag is bound to slew around at the turns and do more work than would be the case with the back and forth method of dredging.

While this method of dragging is as old as the hills, yet when it was brought up at the Benzie County Pomona Grange, it was surprising to see that not a few old farmers were not familiar with the plan. Attention to such details as this is bound to contribute towards that success which can only be obtained by efficiency in farm operations.

Benzie Co. E. H. BROWN.

PRESERVATION OF FENCE POSTS.

Those who have not access to the more desirable kinds of fence post timbers, as red cedar, black locust. and osage orange, will find it profitable to treat the poorer species of woods to lengthen their period of usefulness. The cost of cutting and setting of posts is the same whether they are cedar or basswood, so after all. the real cost will depend upon their durability after being set in the ground. According to the experiments completed by the United States Department of Agriculture a few years ago, any fence post properly treated with creosote will last twenty years. Surely, any method as effective as that ought to be worthy of consideration and trial.

Of two methods commonly used one is charring posts in an open fire, and the other is painting them. These are of some value but not sufficiently effective to be worth while.

It has been found on examining untreated timbers that they rot first a few inches above the ground or a few inches below the surface. This is due to the fact that bacteria and fungi or north side of the field. At the fence, plant organisms that cause decay have here the proper conditions for growth. To live, they must have air, moisture, and a drag-width to the west of the and food materials. The wood is their last track made. As this zigzagging food; this can be poisoner and water is repeated, it will be found that when can be kept out to a certain extent. the work is well started, no turns at The best agent for this purpose is a

Before the wood is treated with this solution it must be seasoned and the bark peeled off. Timber will season tion will an out-take flue made of galpleted, the field will have been drag-solution it must be seasoned and the best if cut during the winter because to other shaped fields. If the field is it will dry out more slowly then, thus a long one, more zigzags may be in- preventing the splitting and checking troduced so that the angle at which of the wood which occurs when it the fences are met is always 45 de- dries out too rapidly. It is also a good grees. If the field is square, or nearly idea to bevel the tops of the posts erly used in the construction of out mon method of propagating the disso, a start may be made on the diag- with an axe, for drainage. Round tim- take flue for ventilating a stable, pro- ease is through the medium of diseas-

in excellent condition, puts in the seed first diagonal travel will become noth- trates evenly. Where the heartwood purpose, it is desirable to make the at the proper time and hopes to get ing, while the entire length of the op- is exposed as in the latter case the liquid penetrates it more slowly.

> creosote for one hour and then transfered to a tank containing cold creocauses a deeper penetration of the preservative.

Creosote evaporates somewhat when heated, so to lessen the expense crude oil, which does not evaporate readily when heated, has been used for the results if properly installed. first bath. The results have been proved to be the same.

The Massachusetts Agricultural Ex- loam, with the exception of an eriment Station have found that the or gravel and half an acre of periment Station have found that the treatment of posts in this way would and with this efficient method, farmers who have only the inferior species of woods will undoubtedly find that it will pay to preserve the posts.

A. A. SHILLANDER. Ingham Co.

FERTILIZING CUCUMBERS.

I notice in your issue of April 17 an inquiry from L. M. H., relative to raising cucumbers, and also advice in regard to same.

When I commenced the business nearly a score of years ago I thought just as you advised about putting a small shovelful of manure in the hill before planting the seed. This I did in the following manner: I first allowed the manure to be thoroughly rotted before using, so as not to have the disadvantage of chunky manure in the hills. I then hauled out a load, and as I dug the holes about a foot deep with my spade, I threw in a small shovelful, worked it well into the soil before planting, and then dropped my seed onto fresh dirt, being careful to give it a good seed bed. I found that this method worked well, providing we had a reasonably wet season; but if the season happened to be dry the plants would flourish well for a time, and then dry out, on account of the moisture having been absorbed by the ground outside the hill. I then tried commercial fertilizer in the same way, and used about a tablespoonful, which I thoroughly mixed into the soil, also using fresh dirt in which to plant the seed. I also found that in a dry season the seed either did not grow, or if started soon died from contact with the excess of potash in the fertilizer. I then replanted, being sure that the hill was outside the old seed bed. Remember that these experiences were during dry seasons. The results would have been fairly wet.

barnyard manure, and since then have food to an extent which would perhaps had a fairly good crop even in a dry make the beans as profitable a crop season, when others utterly failed, and as could be planted on the land. bought their yearly supply from me. I carry on an annual city trade, and my customers speak boastingly of my cucumbers, and often ask me how I can raise them when all others fail.

Now, in regard to the use of hen manure, it must be sparingly used: as the excess of potash will injure the plants, or kill them entirely. It is a splendid fertilizer, but must be used with caution in order

J. L. CUPIT. Eaton Co.

FARM NOTES.

Flues for Barn Ventilation.

vanized roofing be as satisfactory as one made of matched lumber double boarded, with paper between the lay-

Kent Co. F. L. Y.

He fertilizes a piece of ground, gets it grees; when the work is finished, the split ones because the creosote pene- Where galvanized iron is used for this flue of somewhat larger capacity than would be the case where made of The following is the process found some material which is not so good a od are the fact that since no about- to be most effective and economical. conductor of heat, since the cooling of the air during its passage will slow up the air current in proportion to the loss of heat. This handicap can, howone man who timed himself on a field sote, for two hours. This cold bath ever, be easily overcome by slightly increasing the capacity of the outtake flue. Galvanized metal is undoubtedly the cheapest available material for the construction of out-take flues, and will give very satisfactory

Beans After Corn on Heavy Clay.

I have a field of nine acres, clay of the heaviest kind of red clay. treatment of posts in this way would an old timothy sod, heavily manured cost on an average of five cents for last spring, put into corn and potaeach post. At this reasonable price, toes. The ground was kept clean and and with this efficient method, farm. I had a big crop. What I would like I had a big crop. What I would like to know is, would it be profitable to plow this ground and put it in to beans this spring? I have been told I could not get a crop because ground would pack down so hard. I have another field of about the same soil but not so rich, this was corn also and kept clean. How would it be to cultivate this field and sow it to oats and rape for pasture? If not this, what would you suggest for pasture? And is it best to keep the cows and horses on this pasture all the time? I have six acres of new ground, have used for sheep pasture the last twelve. used for sheep pasture the last twelve years; this was never plowed, and is a heavy June grass sod. Would you a heavy June grass sod. Would advise beans for this field or and potatoes? If not these, who Oakland Co. for this field or c If not these, what?

J. N. Beans can be planted after corn with fair results on a clay loam soil. Probably the heavy spot in this field would be pretty hard to grow a good crop, although the manure and sod plowed down last year should make it less liable to bake down than if this vegetable matter had not been incorporated with the soil.

Oats and rape will make a fairly good pasture in the other field mentioned, but this would in the writer's opinion, be improved by the addition of some field peas, if sown early in the spring. A crop of this kind will not stand as close pasturing as will a good grass pasture, and much will depend upon weather conditions as to the best method of handling same.

The new land covered with heavy June grass sod would perhaps be more suitable for corn and potatoes than beans, although if plowed early and a first-class seed bed prepared, an excellent crop of beans might be expect-This crop would have the advantage of enabling the sowing of this new ground to wheat this fall. The only reason why the other crops mentioned might do better on this stiff sod is that they have a longer growfar different had the seasons been ing season in which to utilize the plant nutrients from the decaying or-I then tried enriching the ground by ganic matter. The wheat crop, howplowing under a liberal supply of good ever, will profit by this store of plant

Beans After Beans.

I have a five-acre field, the soil of which is medium light clay; in 1911, 1912 and 1913 the field grew a good fair crop of timothy hay and in 1914 it produced a good crop of beans. I am wondering if it would be advisable to plant it to beans again in 1915. In 1914 the crop of beans was slightly blighted. Would this have anything to do with the 1915 bean crop? If beans will not rotate on this field, to good advantage, what will? antage, what will?

J. L. C. Isabella Co. It is not ordinarily good practice to plant the land two years to the same crop in any rotation. It would be a better plan, in the writer's opinion, to sow this field to spring grain as oats or barley and seed to clover, as this will restore it to a better mechanical condition. As the bacterial blight and anthracnose of the beans are fungus diseases, there is no doubt a possibility of an infection of the next crop Any kind of material can be prop- through the soil, but the more com-

Reclaiming Swamp Land.

terest to a considerable number of river made it practical to drain much Michigan Farmer readers. Dredging swamp, which otherwise could not a stream or making a channel through have been done. a strip of low land is a matter in which much labor and expense is necessary, and unless those interested swamp land in this community that have had experience in, or knowledge has not been drained and cropped. of, this line of work, many of them While nearly all kinds of crops are may question the wisdom of the enter- grown on muck land, some crops do prise.

in this township and one and one-half moisture, but grows a large tonnage miles into Ohio three years ago, our and makes fine silage. township being in the southern tier of The stream, when within the banks, four feet is not too deep. for only a very short time.

When the question of dredging was tiled frosted badly, while that on the proposed most of our people thought balance of the field remained green. it necessary, but that it would be so expensive that it would put a burden land is good and some not, the black on the people affected, which they being good and the brown flaky and could not well bear. James Kelley, an not good. The latter will become interested farmer, appointed himself a black as it decomposes, which is hastcommittee of one to fully investigate ened by being broken up, cropped and the matter. He went to Ohio, where marked, exposing it to sun and weathsimilar work had been done, and came er. We do not think that marsh hay home satisfied that it was the thing plowed under would be of benefit to to do. He, with others interested, secured the necessary signatures to a humus, although it will be seen by the petition to the drain commissioner, analyses of swamp hay that it has a who, with surveyors, was soon on the higher feeding value than wheat or it would work hardship and possible more valuable as a fertilizer. ruin to many, signed a remonstrance against it and employed attorneys to oppose the dredging. Those favoring also employed attorneys in defense. The final decision of the litigation was in favor of the petitioners. The opposition carried the case to the supreme court, who sustained the decision of the lower court. The fight added several thousand dollars to the cost of the work. Besides, each party had to pay their attorneys.

The Cost of Reclamation.

All went well until the Ohio line was neared. Ohio threatened an injunction and to compromise one and one-half miles was dredged into Ohio. The new channel was made 40 feet wide and averaged six feet deeper than the old one. But little attention was paid to the old channel in making the survey, the object being to make the stream as straight as possible, in one instance going in at the northeast the atmosphere. corner of a section and going in a straight line, coming out at the southwest corner, disposing of one bridge at each corner, one three-way bridge taking the place of two. The whole cost, including five new bridges, was \$48,000, which amount was raised by taxing all land that drained into the river, either directly or through other six or seven miles back from the riv-plants, together taxed according to benefit derived. and who had asked damages, believing he could not pay the tax, sold the farm. The buyer received the amount of damage which was \$5 more than the tax. The tax was all paid and the writer knows of no person who was obliged to mortgage his land to meet his part of the expense and we think warning to the farmers of that state that nearly all will admit that it is to profit by the experience of last year one of the greatest if not the greatest and conserve the spring moisture by single improvement ever made in the good cultural methods, in anticipation township, having drained or given an of another dry year. This is a wise outlet for thousands of acres of land precaution in any season and should that without it was of little value. be practiced by Michigan farmers.

RECLAIMING swamp or bottom which is now classed with the best in land by dredging and draining the state. Ohio carried forward the is a subject which may be of in- work the next season. Dredging the

Crops for Muck Land.

At this writing there is but little much better than others. Peppermint, Knowledge Gained from Experience. celery, potatoes and tomatoes do well. I have gained such knowledge from Oats, timothy and redtop fairly well, having lived in this community long while beets have failed with us. Corn before and since the St. Joe river was is harder to cure than that grown on dredged, which work was completed upland as it contains an excess of

Tile should be laid deep in muck towns in Michigan. The stream was land, it being composed of decayed shallow, very crooked and much of vegetation which continues to decomthe land it passed through quite level. pose and settle, each year bringing Overflows and floods were frequent, the tile nearer the surface. Three or was 25 or 30 feet wide, but often dur- good drainage the land is cold and ing high water reached a width of a crops do not succeed or are very liahalf mile or more. Since the dredg- ble to be cut by frost. The effect was ing was completed the water has over- plainly marked in our field of corn flowed the banks but once, and then last season. It was grown on muck and about one acre which was not yet

It is often remarked that some muck muck land for it has an excess of But several citizens, believing oat straw or timothy hay, and is also Hillsdale Co.

INOCULATION FOR SOY BEANS.

W. G. BOYD.

I am going to sow two acres of soy beans. My ground has never been inoculated. The seed houses want \$2 an acre for the culture. Will it pay to inoculate the seed at that price?

Mecosta Co. E. A. B. All legumes will grow and produce good crops without inoculation, provided the soil contains an abundance of available nitrogen. After a time the plants become self-inoculated. This is when they begin to feel the need of more nitrogen than the soil is then furnishing them. But if we allow legumes to feed upon the nitrogen already in the soil from the want of inoculation, then we are not improving our opportunity, because we nowadays grow legumes for one reason, to accumulate some of the free nitrogen of

cannot tell you how well it will pay to inoculate for soy beans, but will say that I would not plant them without inoculation. Last year I purchased soil from a man down in Ohio, paying him 60 cents per 100 pounds and then paying the freight. This year I got what a soy bean grower terms "concentrated inoculation," that streams. This tax was spread on land is, the nodules are stripped from the with a little dirt, and er, which was supposed to have been then pulverized fine and the seed inoculated by the glue method. I advise One man whose land it passed through, trying the commercial culture on one acre and carefully noting results, you

> can then tell whether you think it pays.

CONSERVE THE MOISTURE.

The Indiana Station has issued a



Her "Baby" is now 35 years old-born year Studebaker was bought

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Mrs. W. T. Smith,

Natron, Oregon

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-ANTI-CORROSIVE





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Seeder to seed in standing corn and consider it
a perfect tool for that purpose. It seeds even
and accurate and covers same properly.

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Grooming the Farm Horses.

HE horses used on the farm are the correctness of this statement. man's most intelligent and faithue, both in a monetary sense, and in in those days. lack of capabilities of service.

the horses, and I will mention some

Appearance Not the Only Object.

If it were to only gratify a love for good appearances, that alone would pay for the trouble; but that is not all there is to the matter. The appearances are improved, because the hair is made to lay down and in the direction in which it is desired to have After a few groomings administered thoroughly and regularly, there is a glossy appearance to the hair. Why this change? There are good reasons for it. By rubbing and using friction on the surface, there is an increase in the circulation of blood to and underneath the skin. There is a greater supply of nutritive elements taken to the capillaries at that point, and there is exuded through the skin oily substances, and they cause the hair to lay down and put on a glossy appearance. The skin is more active in performing its functions, and the general health of the horse is promoted in several ways, as we will observe if we give the matter due consideration.

and assists in building them up, while they are growing, and also aids in reat night gives the horses a double ben. their size and weight for first mating. efit. It aids them in getting rested and when they come out in the morning, they have a better appearance, and better action, than when the grooming is deferred until morning.

Groom at Night as Well as Morning.

If we groom the horses at the proper time and in the proper manner, we not only promote the circulation of horse. A little observation will prove the crop.

Grooming regularly and thoroughly ful servants. The horses are re- not only improves the general appearlied on from the beginning to the end ance of the horse, aids in restoring of the war to perform such services as strength and life, but digestion of the the horses alone can perform, and yet food consumed is aided and the assimappearances in many cases indicate ilation of the nutritive elements is that there is a lack of appreciation of more thorough than is possible withwhat the horses are, as far as necessi- out it. Some of the observing horseties for work are concerned, and they men of years ago, when horses were are not given in return the care and the center of attention and consideratreatment that they deserve. In some tion, and not the automobile as now, cases they are wilfully, and in others used to say that good grooming was they are thoughtlessly, neglected. No worth as much as an extra four quarts matter for what reason the neglect of oats per day to a team of horses. comes, the appearances indicate a lack We have reason to believe that the of interest on the part of the caretak- real value of grooming regularly and er, and display a depreciation in val- thoroughly was under-estimated even

Considering the benefits that can I am aware of the fact that many be derived from giving the farm horse who have a good estimate of the value better care and more reasonable conof the services of the horses under sideration, we can see that there their charge, fail to realize the full ought to be a revival of interest in the benefits derived from carefully and in- horses kept on the farm. There ought telligently grooming theri horses. It is to be more attention paid to systemusually looked upon as a perfunctory atic and thorough grooming. It will task, and only external appearances not only add to their beauty, which are considered. There are many ben- always has its value, but it will add to efits derived from properly grooming the capabilities for service during the whole working season of the year. All the benefits add to the efficiency and the term of years for which the horses can be useful on the farm, and to the actual value during the term of years for which they are kept for useful service.

Wayne Co. N. A. CLAPP.

BREEDING QUESTIONS.

I wish you would answer the following questions in an early issue of your paper: Is a filly at the age of two years too young to breed? Does it spoil the shape of them to breed them at that age? Does it make any difference as to whether-you breed a young mare to a light roadster stallion or a heavy draft in regards to trouble in foaling? I have a filly rising two years old that is out of a western mare, weighing between 1200 or 1300 lbs., and from a sire of the roadster class, weighing 1200 lbs. She is tall, built in proportion. Do you think she will raise a good colt from a Belgian sire weighing between 1700 and 1800 lbs? Chippewa Co. Subscriber. Horses do not fully mature and get

Horses do not fully mature and get their growth until they are five or six years old, therefore, I do not believe Rubbing or grooming the muscles it always a good plan to breed a twoattracts better circulation to them, year-old filly, unless she is unusually growthy and extra well developed for her age. Breeding for the first time, I storing them to their normal condition do not believe it advisable to have too of usefulness after the horse has be- much difference between weight and come fatigued by continuous efforts at size of sire and dam; however, three work, or by traveling on the road. or four hundred pounds makes little Fatigue is caused by wornout myocyte difference at foaling time, unless it be (muscle) cells, and the animal is not the mare's first foal. After that, I do relieved until the wornout material is not believe that there is much danger carried away through the circulation with a mare having trouble at foaling of the blood. The waste matter is time. Breeding a very young animal carried off, and gotten rid of, through does change their shape and usually the renal secretions, (kidneys), and makes them more plain in appearance, the skin. Rubbing and grooming as- besides, increases size of abdomen and sists the circulatory system in getting lowers back slightly. The mare you rerid of wornout tissue and, as we ex- fer to, if crossed to a Belgian, would press it, helps the horses to get rest-raise a useful and saleable general ed. We can see why rubbing the mus- utility horse, but I really believe there cles of the legs and grooming the body is just a little too much difference in

W. C. FAIR, V. S.

FEEDERS' PROBLEMS.

Forage Crops for Hog Pasture.

How much of each of peas, oats and dwarf Essex rape should I sow per acre for summer hog pasture?
Genesee Co. Subscriber.

Peas and oats are used in various the blood, but the nervous system is mixtures for forage purposes. For hog greatly helped. The nerve and brain pasture less oats would be required in cells are only refilled during the time the writer's opinion, than where the the animal is sleeping. The sooner crop is grown to maturity, say three the animal becomes rested, the longer pecks to a bushel of oats, a like quanwill be the period of sleeping, and the tity of peas and five pounds of rape more thoroughly he will be restored per acre should make an excellent to his normal life and voluntary ac-mixture. Somtehing will depend upon tivity. No other animal manifests dis- the nature of the soil and how early tress from loss of sleep as does the it is desired to pasture the hogs on

IN THE HOG YARD.

Hominy Feed for Hogs.

How does hominy at \$1.50 per cwt. compare with shelled corn at \$1.50, as a food with which to fatten hogs? Can a man make anything fattening hogs with prices of feed as named and price of pork as at present, which is \$6, the hogs weighing about 140 lbs.? Can you tell me what ails my pigs, or rather, why my young sow's litter are a failure? I have three Yorkshire sows, one old one and two young ones. The first young one was bred December 3 to a young registered Yorkshire boar; the second was bred December 7 to the same boar, the old one was bred to an old Yorkshire boar December 9. The first farrowed March 28, having eight pigs, four of which were dead, the others having very little vitality so that two more soon died. The old sow farrowed April 2, having but four pigs, but they were large, strong pigs. The second young sow farrowed April 4, having 11 small, weak pigs without hair and with very little vitality, so that six have died and it will be a surprise if I raise any, though I am doing all I can to get them started. These sows were all fed the same and as I never feed my brood sows corn the last six weeks, I fed wheat middlings and buckwheat middlings with the hulls in, as a slop with milk, the buckwheat middlings being added to give variety. I usually feed oil meal but as that is so high this year I substituted the buckwheat middlings. These sows slept in the same pen and had the run of the barnyard in which I had made a rack from which they ate clover hay, of which they consumed quite an amount. I have raised pigs a good many years and never had bad luck like this before and am at a loss to account for it. Newaygo Co.

S. S.

If hogs will eat hominy feed as well

If hogs will eat hominy feed as well as they will corn they will fatten readily, but skim-milk or wheat middlings should be fed with it, as this food product contains a large amount of carbohydrates and fat in excess of the protein. Neither corn nor hominy feed is the best kind of food for growing fattening pigs, but after the pigs are pretty well grown corn is the best finishing food, and hominy will do well; both are improved by a food like middlings or skim-milk fed as a slop. Is there Profit in Fattening Hogs at

Present Prices?

I do not believe there is any profit in six-cent hogs with 80-cent corn and other feed in the same proportion, but of course, where one has the hogs, he must fatten them to make them marketable. It pays better to fatten them than to sell them in thin flesh.

Immature Pigs.

I can not tell the cause of these weak immature pigs. Certainly the sows have been well fed and cared for. There must be some other reason; possibly you have contagious abortion, this happens frequently. In the case of the old sow farrowing only four pigs. This will sometimes happen, but there is no explanation, it

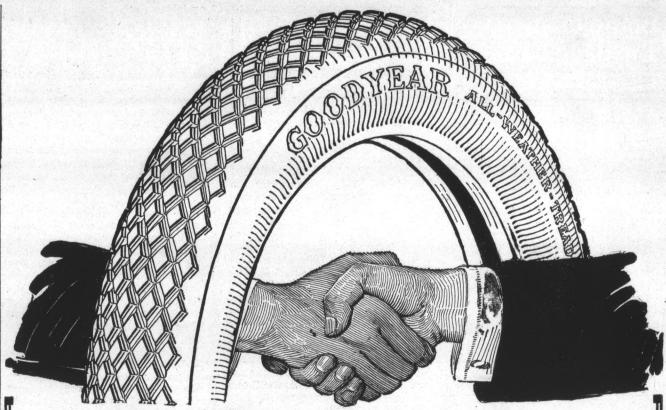
just happens.

COLON C. LILLIE.

Contrary to some reports, Kansas has no considerable numbers of cattle available for early marketing. B. H. Heide, live stock agents of the Chicago Stock Yards Company, returned to that city a short time ago from a visit to Kansas for the purpose of investigating the cattle supply, it having heen reported that Kansas had a big cattle supply for the April, May and June market. The large supply failed to show up, and Mr. Heide said: "While Kansas has been a greedy buyer of thin cattle for months past, they are merely in storage, waiting to be placed on grass. Owing to high cost of feed and a disappointing winter market, Kansas did not shovel much corn into the feed trough during the winter. The cattle went in largely to replace stock sacrified during the 1913 drouth, but they are being roughed through for summer and fall finishing purposes. Any impression that Kansas is full of fat steers is erroneous."

Now that the spring season has opened for the free marketing of Wisconsin dairy calves at Chicago, Tuesdays are lively days for veal calves, with the greater part of the calves received on that day, known as "calf day." Prices have had bad breaks under such generous offerings.

Texas grass cattle will reach northern markets later than usual, and few will be shipped out before the first of May. It is said that as many of these cattle will be shipped as a year ago, but they will be largely light in weight, with Mexicans prominent.



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And we still spend on experts—on laboratory work—\$100,000 yearly. That is to test tires built in different ways, to learn how to build them better. And every improvement we discover is adopted regardless of cost.

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LILLIE FARMSTEAD DAIRY NOTES.

Another year's work in the cow-testing association is completed and we have the herd summary as furnished by the tests. This summary for the whole herd for the whole year, is certainly very interesting to the owner of the herd, at least. I am not satisfied with results and, of course, will try and improve this year over last. The theory of herd improvement is very simple. Each year select out the poorest cows, and keep only the best and gradually the average of the herd will improve. This is correct if the theory is practiced with good judgment. The idea can not be followed absolutely. If you do you will discard some of your best cows. The trouble is cows do not perform the same every year. A cow will perform well one and perhaps the very next year she will not do as well. One year she will stand at the head of the herd in profit production and the next year near the foot. Now it is obvious this cow ought not to be discarded because she makes a poor showing for one, and perhaps two, years.

Test Assists in Improving Herd.

Again, a heifer may not come up to lactation and yet develop into a grand producer. So, while the theory is corated from quite often, and good judgment must be used constantly in the selection of those to be discarded. Yet, with the cow tester's figures this se-

of roughage, and \$1,172.70 worth of no one would think of making a pit concentrates or grain, making a total silo. It would cost too much and re-

This figures an average net profit per cow of \$28.60. Figuring on the profit from food fed there is \$1.49 worth of butter-fat for every \$1 worth of food consumed. The herd produced butter-fat for 21.3 cents per pound, and milk for \$1.06 per 100 lbs.

The Profit.

The Profit.

The herd last year was probably worth \$7,000 to \$8,000. If we figure it worth \$7,500 then there was a profit of 17.5 per cent on the value of the herd. Of course, I have figured the commodations for over 200 head of Holsteins. value from the standpoint of pure- Holsteins. bred cattle. If the value was estimated at half that figure, which would be considerably above the price of common cows, then there would be a membering that these cows did not records upwards of 30 pounds of but-cost me any more than common cows ter, in seven consecutive days, and would, for I raised them all myself. It would, for I raised them all myself. It upon exhibition.

At considerable expense a judge of the considerable expense a secured made a profit on the hay and silage I fed the cows. The alfalfa hay was charged to the cows at \$17 per ton to the cows at \$1 per ton above cost, in many instances whole herds will be exhibited. to pay for hauling.

of equipment, etc. As I have stated before, I am positive that if these byproducts are intelligently handled they will more than do that.

Registered Merit Cow.

We are starting out on a new year CONDUCTED BY COLON C. LILLIE, in this work with better prospects than ever before. Last year seven cows qualified for the Register of Merit, and 12 are now well advanced in their year's work and are sure, if nothing happens, to qualify. We have just begun to milk six cows three times daily. One cow has increased the daily yield from 30 lbs. to 40 lbs. and others in about the same proportion.

I should have mentioned in connection with last year's report, that six cows did very poorly. One was sick a long time and nearly dried up. One spoiled her udder and gave no milk for three months of the year after she freshened. Another failed to breed for two years and gradually dried up and her work last year was very unprofitable. Another slipped and broke pelvic bone and did scarcely nothing. I sold them all for bologna sausage, at 41/4 cents per pound, live weight. Yet all these cows were figured in on the year and make a splendid showing year's total and helped to lower the profit.

PIT SILOS.

Can you give me information on the practicability of the pit silo?
Benzie Co.
R. J. F.

A pit silo is simply an excavation made any desired shape and depth for the purpose of storing and preserving our expectations the first period of green forage. In the early days of ensilage this was the popular kind of silo, in fact, at first it was the only rect in the main, yet it must be devi- kind. The idea of preserving green forage in a succulent condition resulted from accidentally covering green beet tops with earth. They were found to be preserved in an edible and suclection is simplified very much with culent condition. From this people out these figures selection for econom- reasoned that pits or excavations ical production is a mere matter of would answer the purpose better, and these pits were covered with earth My herd averaged throughout the Finally it was found that the preseryear 45.5 cows, that produced a total vation came from keeping air away yield of 246,785 lbs. of milk that test- from the fodder. If only a limited ed, on the average, 4.98 per cent of amount of air could get to the fodder butter-fat. This was an average yield it would heat up, ferment slightly, deof 5,422 lbs. of milk per cow, or 270.6 stroy the bacteria, and the process lbs. of butter-fat, and a total yield of of decay would be checked and the 12,313.8 lbs. of fat. The average price food practically preserved. Then it of fat was 31.7 cents per pound, which was discovered that tight receptacles makes total cash income of \$3,925.41, above the ground were more practical The herd consumed \$1,450.93 worth and produced the same result. Now, cost of feed of \$2,623.63 and a net quire too much labor to get the enprofit above cost of feed of \$1,301.61. silage out from below the ground.

MICHIGAN WILL HAVE A SPRING CATTLE SHOW.

May 26-27, at Lansing, Mich., are the dates and place at which the Central Michigan Holstein Breeders' Association will hold their first annual fair and exhibit of pure-bred Holstein-Friesian cattle

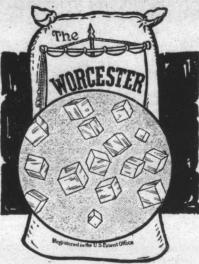
This will undoubtedly be the largest exposition and show of pure-bred Hol-steins ever held in the west, as central Michigan has long had the reputation mon cows, then there would be a of producing and developing some of the best Holsteins in the United profit of 35 per cent. It is worth re-States and many cows with A. R. O.

national reputation has been to pass upon the merits of the different animals.
The Michigan Agricultural College

and the silage at \$3.50 per ton. It is co-operating with the members of should not, and did not, cost that the association, and have consented to much to produce these foods. I purchased nearly all the grain and sold it members from the rural sections and in many instances whole herds will be

WANTED—AN IDEA: Who can think of simple to pay for hauling.

As is generally understood in this coated and very accessible by various steam and electric roads, it is assured to calf and the manure is supposed to pay for labor, insurance, depreciation anything of the kind previously held in the middle west.



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Orchard Mortalities given locality as promises to be the

NE hundred and ninety trees resulting from a count taken in a fruits, a principle of economics which three-year-old sweet cherry orchard in was stated by Prof. G. F. Warren, of Benzie county. Only forty-four per the Cornell College of Agriculture sugcent of a perfect stand, this in spite of the fact that two years ago every vacancy then existing was refilled with new trees. About the same ratio trees by ages showed that plantings held true in a peach orchard on the same farm; where there should have followed by periods in which comparabeen 425 trees to make a perfect stand tively few trees were planted. This only 196 were alive.

located on elevated land within sight of Crystal Lake; sweet cherries and peaches are profitable crops in all parts of that immediate vicinity, hav- crops from the newly-bearing oring a similar elevation. The cause chards. History shows, according to for the failure of so many trees, even Prof. Warren, that at these times of a in the heart of a famous fruit growing flooded apple market, apple orchards region, is not far to find.

Serious Loss from Lack of Care.

by a cityman farmer, who hired a ten- prime of life, into fire wood. ant to take care of the place. The orchards were cropped indifferently well, and quack grass got the upper came into bearing at a period when hand in the tree rows. The tenant little competition from neighboring orwas only hired for a year; the trees chards made the marketing of the would not come into bearing while he crops very profitable. Thus the lesson was on the place, and he was more in- deduced by the student of economics terested in the corn and beans which is that the time when trees can be grew in the orchard than in the trees themselves.

Probably most of the trees were so enfeebled by lack of moisture in their seems to be a drug on the market, and weedy environment that they succum- no one sees any reason for buying and bed to shot hole fungus, leaf curl, and planting more trees. winter killing. While such a condition proved alarming to the new owner who caused the census to be taken, yet it is not to be marveled at in view of the treatment the trees received.

Such a condition is not at all rare. Indeed, it would not be surprising if every young orchard, which is treated end of the deal; the reason for this is to a course in farm crops at the hands of a general farmer who is not sure acreage given over to the crop every of the diseases to which his trees are liable, should show nearly as large a number of vacancies.

Care Necessary to Grow Orchards Successfully.

Plainly, the man who undertakes to plant an orchard without realizing the cost and the need of maintenance, even before the trees come into bearing, is doomed to a rude awakening from any visions of a fortune in fruit which may have led him into planting the orchard. Trees do not "just grow;" they just die, unless cared for.

The condition just noted has a bearing on the question of supply and demand as related to cherries, or any tree fruit, during the coming ten or fifteen years. Unquestionably, very large plantings of all kinds of fruit have been made in the last few years. Take the Montmorency cherry, for instance; we are told of 97,231 trees which were counted in the summer of 1913, by authorities from the Agricultural College, in the vicinity of Traverse City and Northport, trees which had been planted in the Grand Traverse region within the last three years. There is the Dame and Bougher in Door county, Wisconsin, they tell population; the demand created by adof 700 acres of Montmorency in one vertising; the loss of trees by such block, with a total acreage, in the pests as the unforeseen vicinity, of 3,000.

succumbed in the way noted in the or- fruit pests if he will, and produce an is reasonable to suppose that the con- wanting to purchase at a price profitsumption of cherries as well as other able to the grower. Truly, the best of our northern tree fruits may be friend of the persevering orchardist, stimulated through the co-operative as well as the enemy of the indifferent marketing agencies which will doubt- but visionary one, is the cause, insect less become a necessity when so much or fungus, which lays low the unof the commodity is produced in a guarded fruit trees. E. H. Brown.

A Study of Supply and Demand. In connection with the problem of missing and one hundred and tree planting, tree mortality, and fu-fifty-two present is the record ture supply and demand for tree gests itself. Prof. Warren had made a number of census studies of apple trees in New York; a grouping of the had been made in waves of popularity, condition is easily explained; an un-The orchards in question were well dersupply of apples would lead to high prices, and an increased planting, but twenty years later, the conditions would be reversed by the enormous were not assessed on the tax roll, they were so unprofitable. Many owners The orchard and farm was owned went so far as to cut orchards, in the

A few shrewd orchardists planted trees at such times; their orchards most profitably planted with an eye to future successful marketing is that time in which the fruit of that tree

Periods of Over-production.

The pendulum swings from overproduction to under-production approximately every year in the case of potatoes, cabbages, and other annual crops, provided the respective seasons are equally favorable for the growing that it is possible to control the year. In the case of horses, the market is swamped or starved in periods recurring less often, because it takes longer to bring a bunch of colts to maturity than a crop of cabbages. In the case of cherries, a six or eight year interval should suffice to produce great changes in the aspect of the market, while with apples like the Northern Spy, a fifteen-year interval would have to lapse before any great new acreage could be brought to influence the lowering of any high-priced demand for that noble fruit.

It is splendid to have a reason for doing as we have done. Usually the enthusiast who has gone into orchard ing or any other branch of agriculture will have reasons for his venture. While it would seem to be true that there will always be a brisk demand for perfect fruit, yet it is well to remember that the business of agricultural investments is not all a gamble: there are certain economic principles as suggested above which will influence the market of the future.

The Influence of Pests.

Of course, there are other factors influencing the supply and demand for ey orchard at Northport, 200 acres of fruits besides the one of mere tree Montmorency in one block. Then ov- planting. There is the increase of and new pests to come, of perhaps a There is hope that overproduction yet more serious nature. Altogether, will not be the case in the coming the chances for shrewd reckoning into Michigan's Standard, Sir Walter Raleigh. years when these trees come into the future are very great with the bearing. By that time, we may antici- fruit grower, and it would seem that pate that a large number of the trees, his greatest re-assurance comes from reported as planted now, will have his belief that he may overcome the chard mentioned above. Then, too, it article which the public cannot help

Put your ear close to the ground

every time you see a man drawing real joy out of a jimmy pipe, for it's better than five-to-one he's smoking Prince Albert tobacco.

You, like a whole lot of men, never will know what pleasure can be dug from a pipe until you smoke Prince Albert! For it can't bite your tongue, and it can't parch your throat. That's why men know their business when they demand

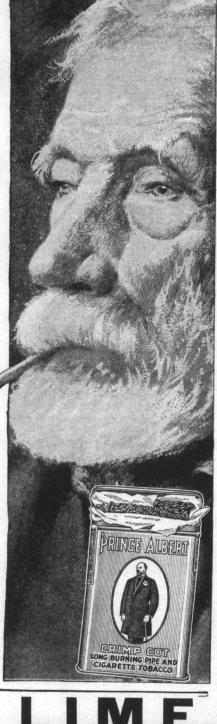
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Casimiro Irado,
104, years old, who
lives in Watsonville,
Cal. Irado has been
a smoker all his life,
and today seeks no
truer friendthan his
old jim my pipe.
Irado has just been
elected a member of
the P. A. "old-time
'immy-pipers club."

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The Michigan Farmer

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DETROIT, MAY 1, 1915.

CURRENT COMMENT.

The Farmer's Income.

the Department of Agriculture relating to the

summaries of which have been published in these columns, have shown such a low average cash labor income as to prove an element of discouragement to many farmers, and to show the business of agriculture in a light which does not do justice to its advantages. For this reason a report recently made of an investigation conducted by the Department of Agriculture to determine the items of income from the farm not represented in cash or his labor income, will be of interest to the reader who has followed the reports of the other line of investiga-

Everyone knows that a well managed farm supplies the farm family with much besides money, but which would, however, represent a considerable outlay of money in any other line of employment. Among these items are food, shelter and fuel, items which every city worker knows far better how to value and appreciate than does the average farmer. As these are a direct benefit, they must be included in a just estimate of a farmer's income. In order to obtain a more accurate knowledge of the average value of this contribution from the farm, the U.S. Department of Agriculture conducted an investigation which included 438 farm families located in ten states, representing different sections of the coun-From data thus secured it was found that on the farms investigated the cost of maintaining each adult person averaged \$176 per year, divided as follows: Dairy products, \$21; pork, \$12; poultry and eggs, \$12; garden truck, \$10; beef, \$6; fruit, \$6; house rent, \$28; labor, \$46. Of this total sum it was found that only about the remainder being furnished by the farm at a reasonable valuation.

When estimated by the family inwere home grown. Of the other arti- steady increase of like proportion ungroceries, 24 per cent were produced total amount available from the Smithon the farm.

In the general investigation, it was

found that \$125 was a fair rental cultural appropriation bill which might educational institutions by the plant-charge for the average farm house, and that the enjoyment of a residence permit, but the development of the on the farm is equivalent to an addi-work under the Smith-Lever approprion the farm is equivalent to an addi- work under the Smith-Lever approprition of this amount to the farmer's in- ation act will probably hold first place come. The same is true of labor ex- in the attention and interest of Michiwhich would otherwise have to be concerned. bought.

These figures illustrate in a general way what the average farm furnishes directly in the way of substantial additions to the farmer's income and which cannot be represented by any showing which includes only the cash or labor income of the farmer and his family. It is only by considering in proper relation the three factors of cash receipts, direct income from the farm as above outlined, and interest on the investment in the farm plant, that any accurate deductions can be made relating to the profit derived from farming. In no other business is such a computation so difficult, owing to the fact that farming is a family business in the analysis of which so many factors must be considered.

While those in other lines of work who carry the idea that all the farmer sells is clear profit are, as we all appreciate, very much in error, so also are Investigations made by the figures collected showing the apparently meagre labor income earned by the average farm family misleadfarmer's labor income, ing. It is only by taking into consideration all the factors of the problem as above outlined, that we can arrive at anything like an accurate idea or comparison, so far as the farmer's income is concerned. But when all of these factors are considered, we begin to get a fair idea of the reason why farming is such a safe and stable business as compared with other business enterprises, even though the majority who follow it do not become wealthy, as measured by the modern standards, and all too often do not fully appreciate the advantages which they enjoy in comparison with the average person engaged in other occupations.

> The appropriations National Aid to made by the last Agriculture. Congress for direct aid to agriculture

amounted to a total of \$27,551,782. The regular appropriation act for the fiscal year beginning July 1, 1915, sanctions the re-organization of the Department of Agriculture in accordance with the plan recommended by the secretary in his recent annual report. Provision is, for the first time, made for funds to be used in cases of emergency, such as the recent outbreak of foot-and-mouth disease, through the setting aside of a sum of \$2,500,000, of which, in cases of like emergency, the Secretary of Agriculture may use so much as he deems to be necessary in the arrest and eradication of contagious live stock diseas-The total above given includes a sum of \$1,080,000 available under the Smith-Lever Extension Act for co-operative agricultural extension work bewood and coal, \$13; groceries, \$22; tween the states and the U. S. Department of Agriculture. Other separate appropriations included in the above 22 per cent represented a cash outlay, sum are a printing fund of \$500,000 and a meat inspection fund of \$3.000. 000.

Of greater interest to the people of stead of the person, the investigators this and other northern states than found that in one typical section in North Caolina the average annual value of food, fuel, oil and shelter enjoyincreasing available appropriation red by the farm family was \$505, of sulting from the Smith-Lever act. The which sum the farm furnished directions without trees, school yards without trees, school yards without trees, school yards without trees, school yards without trees, home without trees are the formula in the first year each state got a flat sum of the birds are like men dependent upon the existence of trees. A park without trees is a desert, unfit for birds or human beings. Farms which sum the farm furnished directions and other interestinal should conserve bird life. This is dissipation to sum of the birds are like men dependent upon the existence of trees. A park without trees, a desert, unfit for birds or human beings. Farms without trees, school yards without trees, home without here are treed, and the formula in the first year each state got a flat sum of the birds are like men dependent upon the existence of trees. A park without trees, school yards without trees, school yards without trees, no provides without trees, no provides without trees, readily the provides without trees. ly \$429, leaving a cash expenditure of \$10,000. In addition to a like amount ly \$429, leaving a cash expenditure of only \$76. Of this sum food was the principal item, amounting to \$401.93, creased sums based upon their profession of which \$330.65, or 82.3 per cent, was produced on the farm. Of the animal produced on the farm, of fruits 98 per all conditions are complied with. Next cent and of vegetables 96.1 per cent year we will receive \$43,005, with a tree, home without here and there a tree, roadsides without trees, are destoned t cent and of vegetables 96.1 per cent year we will receive \$43,005, with a cles consumed and classed together as til the fiscal year of 1922-23 when the Lever fund will be \$133,016.

There are many features of the agri-

pended for the direct benefit and com- gan farmers until the proposition is fort of the family in producing things worked out to the satisfaction of all

riculture.

The greatly increas-State Aid to Ag- ed demands made

both in the large increase of its student body and in the demand for extension work, has created a demand for more funds with which to carry on that work. That demand has been met in a most satisfactory manner by the present Legislature, which has just passed a bill to increase the mill tax appropriation for the agricultural college to one-fifth of a mill on each dollar of taxable property in the state. This will enable the college to meet the rapidly growing demands for instruction in the regular courses and regular extension work, as well as in co-operation with the United States Department of Agriculture in which work an offset against the Lever fund will be required which will equal the amount available from that fund, except the flat annual appropriation of \$10,000 given unconditionally to each state. In addition to this demand, more buildings and equipment will be needed to carry on the local work required to keep this institution in the front ranks of educational institutions of the kind. In addition to this appropriation there is at this writing a bill pending in the Legislature making provision for a special market bureau which is considered likely to be enacted into law besides the regular support of the State Dairy and Food Department, the activities of which are largely concerned with the agriculture of the state. It will thus appear that from the state standpoint as well as from the broader outlook, agriculture is being admirably supported, and that the result cannot but be a matter for congratulation to Michigan farmers.

In his annual proc-Arbor and Bird lamation declaring May 7 Arbor and Day. Bird Day, Governor

Ferris has again appealed strongly to the people and particularly to the youth of the state to preserve the birds and to plant trees to harbor our feathered friends, as well as to beautify the country. The following is the text of his proclamation:

The hair has not been told concerning the destruction of insects by birds. The farmer in particular is indebted to the birds. True, there are birds whose reputations are not above reproach. Some of them eat a few cherries and berries. This is only a small compensation for the service they render man

der man. Throughout rnroughout the civilized world, birds are objects of admiration. Their beautiful plumage, their sweet and cheering songs, awaken the noblest emotions. The man woman cheering songs, awaken the noblest emotions. The man, woman or child who has the heart to needlessly harm a bird will do injury to the human family. Thousands of our most beau-

family. Thousands of our most beau-tiful feathered songsters are killed an-nually by the domestic cat. We need fewer cats and more birds. By training boys and girls to feed the birds in winter and house them against storms, we stimulate the nob-ler emotions. The killing of birds for sport brutalizes the hunter. Michigan should conserve bird life. This is dis-

of all useful forms of life.

Therefore, I, Woodbridge N. Ferris, Governor of the State of Michigan, do hereby designate Friday, May 7, 1915, as Arbor and Bird Day, and do request that this day be observed by all schools, public and private, and other

HAPPENINGS OF THE WEEK.

Foreign.

The European War.-Interest has shifted to the western war zone during the past week. Frequent attacks have been made by both the Germans and the Allies. The heaviest fighting upon our Michigan has centered around Ypres, where several Canadian regiments are opposing the Teutons. The latest reports indicate that about 1,000 Canadians were killed, including 21 officers, during the latter part of last week, in this district of the battle front. The Germans are sending large numbers of troops are sending large numbers of troops to defend their positions in this quarter and to take up offensive work if possible because Ypres seems to be the key to French ports along the coast. At several other points in the west, minor engagements have resultwest, minor engagements have resulted from advances by both the Germans and Allies, but the advantages have been of minor importance. On the east there is less activity, especially in Prussia and Russian Poland. In the Carpathian Mountains the Austrians and Germans have reinforced trians and Germans have re-inforced the troops and are holding the Rus-sians in check. To the south nothing of importance is reported. Last week the Allied fleet in the Dardanelles began a second attack on the forts de-fending that watercourse. Troops are fending that watercourse. Troops are being landed to assist the battleships. English colonial forces have had some success in forcing the Turks farther away from the Suez district. Rumors of peace talk are frequent, but nothing of an official character has been made public along this line. The latest news from Rome indicates that an agreement between Italy and Austria will probably be reached without recourse to arms.

will probably be reached without recourse to arms.

It would appear that Japan is not
to be diverted from her present program in China. Protests from the latter country and notes from the United
States have failed to modify Tokio's
demands for an extension of interests
in China.

It is possible that an agreement will

in China.

It is possible that an agreement will be made between the United States and Germany to provide for the exchange of potash for cotton. Such an arrangement will be of great aid to the agriculture of this country in helping the cotton growers and in supplying the cotton growers are growers. farmers everywhere with potash r fertilizer.
The inhabitants of ten villages near

The inhabitants of ten villages hear Van, Armenia, are said to have been massacred by Moslems.

The Republic of Panama is in need of money. There is a deficit in the treasury of approximately two million dollars, resulting from decreased revenues and large expenditures.

National. Business conditions have further indications of being on a substantial basis. Last week after several days outh of the state to preserve the birds and to plant trees to harbor our eathered friends, as well as to beautify the country. The following is the ext of his proclamation:

The half has not been told concerning the destruction of insects by birds. The farmer in particular is indebted to the birds. True, there are birds of the birds. True, there are birds of the birds. True, there are birds of the most active buying Wall Street has ever witnessed, there was naturally a chance for the leading issues to show a decided reaction, but instead, while buying was less active, quotations remained near the highest prevailing prices. Trade has also picked up generally, considerable improvement in cotton and woolen goods being apparent, while iron, steel and copper are in better demand. Building is also expanding in our cities, and money appears to be plentiful.

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ton delivered to the German embassy a note in reply to a memorandum criticizing the neutrality policy of the United States. The note contains a rebuke to the German Ambassador for the freedom of his remarks on the course taken by the United States toward the warring nations of Europe. The note also makes it plain that it will be a part of the neutral policy of the United States to not hinder the shipment of arms and war munitions to any of the belligerent nations.

Much interest is being given the libel trial of Colonel Roosevelt at Syracuse, New York, where the Colonel has been on the witness stand several days replying to queries of a

onel has been on the witness stand several days replying to queries of a political nature put by his own attorneys and those of Wm. Barnes, of Albany, the complainant.

In the three months ending March 4 there was an increase in loans and discounts in the 7,599 national banks of \$151,229,004 and are increase.

of \$151,328,094, and an increase over a year previous of about \$142,000,000.

The D. A. R. in annual congress at Washington have re-elected Mrs. W. C. Story, of New York, as president for another term.

The union carpenters of Chicago are on strike for higher wages. The contractors' association has turned down an offer to arbitrate the matter. Several thousand workmen are involved.

The first shipments of steel for the government railroad in Alaska left Seattle, Wash., early last week for Cook Inlet, Alaska.

Magazine Section

LITERATURE POETRY HISTORY and **INFORMATION**



The FARM BOY and GIRL SCIENTIFIC and **MECHANICAL**

This Magazine Section forms a part of our paper every week. Every article is written especially for it, and does not appear elsewhere.

Some Activities of Social Center C

By HELEN G. ROTH.

HERE was a time when the mere mention of the name "Bertrand" day considered a slogan to be proudly Niles and richer in historical lore;

was enough to provoke derisive ganization with its varied activities the undertaking. Two more meetings The prosperous French and interests. This is the way it came were held to complete arrangements, of securing a musical instrument for town which flourished more than sixty about. Several people, greatly inter- with the result that three historical years ago had long since fallen into ested in the early history of the local- floats, three decorated carriages, and the co-operation of the school trustees

weeks before the dedication, which Co-operation is the keynote in Ber- took place July 4, the neighbors were trand, as in all community life. From called together at the Bertrand school idents of the old community. the desire of a few of her people to house to plan for the coming event. A

counter-balanced the quiet respectabil- the Boulder; for the town which once. That day saw the awakening of a new lived up to, and the "knockers" follow furthermore, the Boulder itself was only heard the astonishment expressproduce such a display, felt a pride as

At the last meeting held at the old co-operate with Niles in the dedication member of the Historical Society in schoolhouse before the celebration, it program provided by local talent, of the Boulder to mark the site of old Niles addressed the meeting, arousing was discovered that the wornout or- drew a crowd which packed the school

hymn. Then and there, a committee was appointed to look into the matter the school. This committee secured decay, and the remains of the village ity, were anxious that Bertrand be three horse-back riders, all displaying who agreed to pay fifty dollars on a sheltered a few ne'er-do-wells whose represented in the parade which was Bertrand pennants and descriptive new piano. In spite of much opposireputation for shiftlessness more than to precede the ceremony of unveiling banners, joined in the Niles parade. tion, a sum nearly as large was raised by popular subscription. A box social ity of the old families in the neighbor- flourished on the banks of the beauti- life in Bertrand. Those who partici- brought in twenty-five dollars; and on hood. "Be a Bertrand Booster" is to- ful St. Joseph River was older than pated in the celebration, those who the first payment of fifty dollars, the were spectators, and even those who piano was delivered. Through the interest of one of the Bertranders, a this "band-wagon" and climb in, one taken from the woods nearby. Several ed on every side that Bertrand could foreman in a piano factory, an excellent new piano was bought at considdelightful as it was new, at being res- erable less than retail price, and a year's time allowed for payment.

A grand opening concert, with a Fort St. Joseph, came the present or- enthusiasm and creating an interest in gan was no longer capable of wheez- house and surrounded it on the out-

WORLD EVENTS IN PICTURES.



Edw. B. Lyman, who has Raised nearly \$2,000,000 for Belgian Relief.



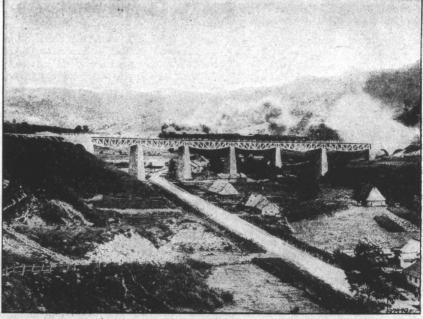


President Wilson and Mayor Mitchell Start Base Ball Season.



A French Aviator Just Starting on a Scouting Trip in Northern France.





German Military Doctor with the Turkish Army in the Desert.

Uzok Pass of Carpathians where Austrians and Russians are Battling.

sale of ice cream, grape-juice and flowers, brought in fifty dollars, thirtyfive of which was profit. The mayor of Niles and a representative of the Historical Society commended the people of Bertrand on the success they had attained, and the get-together movement was launched with a vim and enthusiasm which has never been allowed to die out.

With the advent of the new piano, in which everyone felt a proud sense of ownership, a Sunday evening song service was inaugurated; and this has become a permanent institution. The singing of gospel hymns is the only distinctively religious feature of these meetings, the program being varied, and conducted each week by a different leader. The average attendance is about seventy-five persons. Catholics, protestants, and those of no church whatever, meet on common ground, participating with equal interest and enjoyment.

Evening meetings called for better lighting facilities than the small kerosene lamps set high on the walls of The next move, the school room. therefore, was the installation of an improved lighting system at a cost of about sixty dollars. Consequently, when the formal organization of the Bertrand Social Center Club was effected in October, 1913, the real work of "getting together" was well under way-the club had a reason for organizing, and a solid foundation on which to build a permanent structure. John S. Bordner, Agricultural Expert of St. Joseph county, Indiana, and U. G. Manning, of the South Bend Chamber of Commerce, were present at the organization meeting to assist with suggestions from their experience in social center work. At this point it is well to emphasize the fact that the impulse for organization came from within, to meet the demands of a growing community. It was not an idea thrust upon the people from without. A constitution and by-laws were adopted and officers elected. The club holds a regular meeting on the first Thursday evening of each month. Routine business is transacted, and an instructive talk on some subject of common interest is given by an authority from the near-by cities or surrounding Collections taken at the country. monthly and Sunday meetings meet the running expenses. Large sums needed for special purposes are raised by socials and entertainments of various kinds.

In the year and a half of its activity the Bertrand Social Center Club has bought a new piano, a lighting system and several dozen folding chairs; planted shade trees along the main highway, and contributed three days of voluntary labor to the cause of good roads. It successfully conducted a Fourth of July celebration of its own in 1914, (without raising any preliminary subscription fund, and having a surplus of about fifty dollars in the treasury), entertaining about three thousand people with a pageant of scenes from the early history of Bertrand. A committee on relics is takand in the making, and the preservation of old land marks in the vicinity.

This year the interest was increased the situation. a hundred fold, much excitement beproving the building in every respect, insisted on my companionship; indeed youd in the darkened parlor? This

side. A voluntary offering, and the and the district now employs two ex- city by the good school and social life last supposition was possible, and I cellent teachers at good salaries. It of the neighborhood. is only a matter of a few years until small land owners, attracted from the ery activity of the neighborhood.

The idea of the club is that of a a large modern structure will take the closely related rural community, where place of the present building, as the the people are united in a spirit of half-closed door, and endeavored to community is rapidly being settled by progress which manifests itself in ev-

THE RED MIST.

By RANDALL PARRISH.

Copyright A. C. McClurg Co.

had been encouraged to accompany picions must be vague, and motioned for Sam to clear the me gone.

said genially, "and you had better turn drop, though not necessarily a dangerall of us ride on into Green Briar to- outlines of buildings were probably morrow. I'll talk with you a minute the stables, where I would find my Taylor in the parlor before you go; horse. With no guards the trick of but Cowan does not need to wait. getting away unobserved would be Help yourselves to the tobacco. Oh, Sam!"

bedroom, and see he has everything men were actually up to. Such inforhe needs."

"Yes, sah."

my pipe, I rose to my feet, stretching men below were careless, were innosmall lamp in his hand, and led the completely deceived as to my characbackward glance through the open visible in the upper hall, and I leaned I had left them, except that Harwood listening. A light still burned within was leaning slightly forward across the dining-room, but there was no the table, and speaking earnestly. A sound of voices, or of movement, ing care of the records of history, past moment later I was left alone in a waited there motionless for several small room at the end of the upper minutes, unable to assure myself that tance to do a deed like this? Not the least important of the re- clicking the latch into place, I glanc- been terminated so quickly. Surely was a secret understanding between sults due to the new spirit of progress ed about me curiously. It was a nar- they must be there yet—where the them; they met in this lonely place by in the community is the advance in row room, containing only a chair, a lamp burned no doubt, and would re- appointment. There could be no doubt standard of the district school. Prior washstand and a single bed, a strip of sume conversation shortly.

The three of us talked on many sub- the taciturn, silent mountaineer had jects, although Taylor said little, ex- even endeavored to simulate geniality cept when directly addressed, and I to that end. But for what possible noted that few references were made reason? Suspicion no doubt of my to the war. Occasionally Harwood real purpose—a vague questioning of would carelessly interject a question my identity, the truth of the story I relating to Jackson, but I remained had told. One thing was certain-I carry on my share of the conversa- eager to get on, and preferred to com- was my own. tion, but none wholly satisfied my plete the journey alone. No doubt judgment. At last the meal ended, they would dismiss the whole matter and the Major pushed back his chair, with a laugh when they discovered

I extinguished the light, and looked "You two men are tired out," he out of the window. It was quite a easy enough, and I knew the road sufmation might prove more important than my investigations in Green Briar. It was clearly apparent that Har- I stole across to the door and opened wood desired a private word with Tay- it noiselessly, surprised to discover it lor, and so, after deliberately filling had been left unguarded. Either the sleepily. The black returned with a cent of wrong intent, or else were way up the broad stairs. My last ter and purpose. There was no one door revealed the two sitting just as over the stair rail gazing down, and plan.

to 1913 it was often necessary for the rag carpet on the floor, and the one The silence continued, and I began sign of warning passing between them form a quorum which could put them ably to render the light invisible from carpeted stairs, crouching well back the desire for my early retirement, so back in office. Last year a lively in- without. I placed my bundle on the against the side-wall. Little by little they might converse freely. Could it terest was manifest in the large at chair, and examined the door; it was I was able to peer in through the op be possible some misunderstanding had tendance of voters at the annual elec. securely latched, but there was no en door-the chairs were vacant; arisen which had led to this tragedy? tion, with the result that the teacher's lock. Then I was not being held prist here was no one there. The gleam of One fact alone combatted this thought salary was raised twenty-five per cent, oner. Still smoking, I sat down on the the lamp revealed a deserted room, the stolen revolver; the evident purand a new heating plant installed. edge of the bed, my mind busy with the table still littered with dishes. pose of the murderer to cast the bur-What had become, then, of Harwood den of the crime on an innocent man. It occurred to me now with new and Taylor? Could they have gone to That was no impulse of the moment, ing aroused over the demand for a clearness of vision that Taylor had bed already? Surely I must have no sudden inspiration. Taylor had new and larger building to accommo- some special object in his friendliness. heard then if they had climbed the prepared himself for this emergency, date the increase in school attend- If he was a Union spy his natural stairs. If not, had they ventured forth had deliberately taken the weapon for ance. The result was a compromise; preference would have been to travel together on some secret mission into that very purpose. Where had the another room added to one side, im- alone. Instead, the fellow had almost the night? Or were they sitting be- fellow gone? In which direction had

must be fully assured that neither remained in the house, before I sought to trail them without. I crept to the gain glimpse within. The room was black and silent, although I could perceive dimly the outlines of furniture. Nothing appeared strange, except that the chair nearest the door had been overturned. Surely every article of furniture stood straight and stiff enough, when I glanced that way before, on my first entrance. I recalled clearly how rigid that parlor looked, every piece of furniture placed as if by mathematical lines.

Something-some vague sense of mystery, of danger, gripped me. felt a strange choking in the throat, and reached for the revolver at my belt. It was not there; the leather holder was empty. My first sensation was fear, a belief that I was the vicever on guard, exhibiting a lack of in- must break away from these men at time of treachery. Then it occurred formation such as was natural to a once, or face exposure. Good fortune to my mind that the weapon might soldier in the ranks, and thus more had been mine so far, for Major Har- have fallen from the holster as I restand more disarmed suspicion. I ap- wood had failed to recognize me, but ed on the bed-a mere accident. At parently knew little beyond the dispo- if Taylor believed evil of me his tale least I would learn the truth of that sition of my own battery, and the fact would certainly influence that officer, dark room. I stepped within, circled that the main camp was still at Front and arouse his suspicion likewise. If the overturned chair, and a groping Royal, engaged in constant drills. In I could get safely away from the foot encountered something lying on return I ventured to question my host house that night, my escape unknown the floor. I bent down, and touched it on the condition of things in Green until morning, I might never encoun- with my hand; it was the body of a Briar, but made no attempt to learn ter either of them again. 'Twas likely man. The whole truth came to me in the number of troops in the region. Harwood had come from Charleston, a flash-there had been a quarrel, a That Harwood was in the Federal ser- where Ramsay was in command, and murder, unpremeditated probably, and vice I had no doubt, although he was he would return there to make his re- the assassin had escaped. But which not in uniform, and, if this was true, port, while the mountaineer might be of the two was the victim? An instant then it must be also a fact that Taylor dispatched in any direction but scarce- I stood there, staring about in the was a Union spy. The meeting here ly into the mountain districts of Green dark, bewildered and uncertain. Then not been by chance, although a Briar, where my duty would take me. I grasped the lamp from the table in mystery involved the hidden reason Nor would they waste much time in the other room, and returned holding why I, a known Confederate soldier, following me-for, at best, their sus- the light in my hands. The form of uncertain. Major Harwood lay extended on the the mountaineer to this secret rendez- Nothing had occurred to render them floor, lifeless, his skull crushed by an vous. What could be Taylor's object definite. I had said nothing, done ugly blow. Beside him lay a revolver, in bringing me here to meet Harwood? nothing, which was inconsistent with its butt blood-stained. Beyond doubt Various theories flitted through my the character I had assumed. They this was the weapon which had killed mind, as I sat there, endeavoring to would most naturally suppose I was him. I picked it up wonderingly-it

CHAPTER IV.

Into the Enemies' Hands. HE truth in all its ugliness came to me then in sudden revealment. This was no accident, no in and get a good night's sleep. We'll ous one, to the ground. Those dim result of unpremeditated quarrel between the two men. Harwood's death had been deliberately planned, and the effort made to cast suspicion on me, while the murderer escaped. This was why Taylor had insisted on our ficiently well to follow it safely. But traveling together so long. It account-"Show this soldier up to the back I desired to learn first what these two ed for many things which had puzzled me in the conduct of my companion. And the plot had been successful so far as Taylor knew. The Major lay dead, with my blood-stained revolver -evidently the weapon which had struck the blow-lying beside him. Dawn would reveal the deed, and I would be discovered alone in the house. Only my wakefulness, my desire to investigate, had interfered with the complete success of this hideous.

But why had Harwood been murdered? What purpose did his violent death serve? Who was Taylor? And what had brought him all that dishall. As the negro closed the door, the conference of the two men had men were apparently friendly; there as to that, for I had caught the swift trustees to go out after enough men to window so heavily curtained as prob- to cautiously steal passage down the caused by my presence; and had felt (Continued on page 532).

Land O' Nod Stories.

By HOWARD T. KNAPP.

Where Frisky Gets His Candy.

DILLY BE BO BY BUM was not a he did not like to be called names. coward, no, sir, not a bit of it. He was never afraid to go to bed ter she had tucked him in his bed, all answered. snug and cozy. And the time he had 'Fraid Cat.

But now, as he trudged through the shoulder. one to keep him company.

He had glanced over his shoulder little blow on the head. It really pancake." didn't hurt so very much, but Billy was so taken by surprise that he near- wind?" asked Billy. ly jumped out of his shoes. He looked all around, but there was no one the stem is bitten off sharp and clean, in sight, neither could he see any of just as though it had been cut by a the Little People stirring in the knife. Frisky the Red Squirrel did branches of the big pine.

happened, bang, he got another crack, eat, is it?" this time a great deal harder than beheard a chuckle right above his head, sharp little teeth." and there was Tinker Teedle Tee, the merry little elf, swinging on a limb, asked Billy. the weeny copper kettle he wore for a hat cocked over on one ear.

ing his finger at Billy.

"No, I'm not," protested Billy, for

"Then why were you running away?" "Because, because, well, something by himself, and never coaxed his hit me an awful crack on the head. mother to leave the light burning af- and I don't know what it was," Billy

"Ho, ho, ho," shouted Tinker, laugha tooth pulled, the dentist declared he ing so hard he tumbled off his perch. was as brave as a little Major. So But before he touched the ground, he you see he could not be called a spread his wings, and after circling around Billy's head, lighted on his

White Forest, he could not help from "Well, Billy Boy, let's go back and glancing uneasily over his shoulder see what hit you," said Tinker, and from time to time. For the wind, opening his wings, the elf darted on sighing through the branches of the ahead. Now that Tinker was along, pine trees, made the most mournful Billy wasn't the least bit afraid, so he sound imaginable. It sounded for all followed the elf as fast as he could. the world as though the pines were When he caught up with him, Tinker whispering secrets to each other, se- was standing beside a big pine cone crets about everything that had ever lying on the ground. The cone was the happened in the big woods. Of course, shape of a very large egg, only instead Billy knew it was only the wind, but of being smooth, it was covered with for all that he did wish he had some scales, just exactly like those of a fish, only much harder.

"That's what hit you," said Tinker, for the forty-eleventh time, just to pointing to the cone. "No wonder it make sure no one was following him, hurt. If it had ever struck me, I when something struck him a sharp would have been mashed as flat as a

"Was it blown off the tree by the

"No, sir," Tinker replied. "See how that with his chisel-like teeth.'

As he stood rubbing his head, won- "But what did he want with a pine dering what under the sun could have cone?" asked Billy. "It's not good to

"No, but the seeds inside are," refore. Billy was now so scared he nev- plied Tinker. "The seed of a pine er even waited to find out what struck tree tastes a whole lot like almonds, him, but started for home as fast as and Mr. Red Squirrel think they are he could go. But before he had run just about the most delicious goodie very far he stubbed his toe on a stone in all the White Forest. The only and tumbled head first into the soft trouble is he has to gnaw through the leaves. As he scrambled to his feet and hard shell of the cone to get the seeds, rubbed the dirt out of his eyes, he and that's not easy work, even for his

"Do fresh cones grow every year?"

"No, siree, Bob. It takes from three to four years for the seeds to ripen "Fraid Cat, Fraid Cat," shouted and the cones stay on the tree all that Tinker, kicking up his heels and point- time, unless they are blown off by the wind."

Just then the most awful racket

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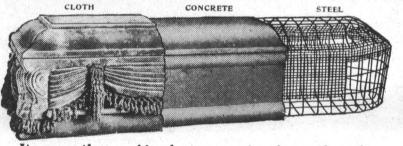
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broke out in the branches of the big the lights, without even venturing to pine, and there sat Frisky the Red glance again into the dark parlor, and Squirrel scolding away at them for all felt my way into the night without. It

going to steal your pine cone."

Mr. Red Squirrel; giving his tail a of a broken fence, and once I stepped saucy flirt, scampered down the tree blindly into a shallow trench, and and started gnawing at the tough cov- dropped my bundle. The recovery of ering that hid the juicy pine seeds.

THE RED MIST.

(Continued from page 530). he fled? A knowledge of this might form, would only serve to increase the help to clear up the mystery, might peril of possible capture. There might reveal, at least, whether he sought be those back yonder in Hot Springs refuge with the Union or Confederate who would recall our passage through forces. And what had become of the the village, who would describe the negro?

hand and revolver in the other, star- slipped instantly out of the soiled suit ing down at the dead face. The first of gray, and donned the immaculate feeling of dazed bewilderment chang- blue, buckling the belt about my waist, ed into anger, and a desire to revenge and securely hooking the saber. Then the death of this man who had once I scooped out a hole in the soft dirt, posed to each other in arms; I recall- and still all about, not even a breath ed merely the genial nature of the of wind stirring the leaves, that I felt man, his acts of former friendship, a return of confidence, a renewed courand his motherless daughter. Out of age. The house behind me, and the the girl who had waved to me in the road. The vision brought back to me Yet I had only to follow the path, coolness, and determination. I wiped off the blood stains from the revolver attain the latter. It was not a large on the carpet, and slipped the weapon building, and the path led directly to back into my belt, assuring myself the single door, which stood wide opfirst that it remained loaded. Then I felt through the pockets of the dead ments of a horse within, which was a man-if robbery had been the object great relief, as I had been fearful lest of this crime, that robbery did not involve the taking of money. I found a mount. Obliged to feel blindly in the knife, keys, and a roll of bills untouched, but not a scrap of paper. On the shadows might conceal, I was some floor, partially concealed by one arm, time in leading the animal forth, propwas a large envelope, unaddressed, roughly torn open. It was some doc- no occurrence to unnerve me, and ument, then, that the murderer sought. This once attained, his purpose had stable, I found it easy to choose my been accomplished, and he had fled own. Once safely in the saddle, I cirwith it in his possession. What paper cled the gloom of the house silently, could justify such a crime? The ne and followed the roadway to the gate. gro-perhaps the negro knew.

discoverey, my mind active and alert, by. While it remained in view I could I returned the lamp to the dining- not remove my eyes from the mansion room table, and revolver in hand be- I had just left, or forget the dead body gan a rapid search of the house. The lying there in the dark. War had alfront door was fastened and barred, ready taught me to look upon death proving Taylor had not left that way. There was but one other room on that I had walked over battlefields, strewn floor, a kitchen in considerable disorder, as though the servant had made this was murder, foul and treacherous no effort to complete his work; but its outer door stood unlatched. The porch without was dark and desterted, yet The shying of my horse at the gate through here, undoubtedly, the murderer had fled, seeking the stable and black lying against the post. At a horse. But what had become of the first I deemed it a mere shadow, but

was sufficiently dark to compel me to "Never mind old chatterbox," laugh- feel passage cautiously over the uned Tinker Teedle Tee. "We are not even ground, the path, circling an old garden, leading toward the stable. 'So Billy and Tinker walked on, and Twice I stumbled over the remnants it brought me a new thought—this would be Federal territory; or if not, already, my night's ride would bring me well within their lines before the dawn. My pass, my Confederate uniartillery sergeant to Harwood's ques-All these questions flashed before tioning cavalrymen. A change of clothmy mind as I stood there, lamp in one ing would throw them off the trail. I been my father's friend. I cared noth- and buried the old uniform, tearing ing at that moment for the uniform my pass into shreds, scattering the the Major had worn, that we were op- fragments broadcast. It was so lonely the mist floated the face of the girl, stable before, were mere outlines, scarcely discernible through the gloom. guided by the remains of a fence, to en. I could hear the uneasy movethe fugitives had left me without a dark, and not knowing what the black erly saddled. But there was no alarm, while there were three horses in the

Not a light gleamed in any direction Intent now on my one purpose of and I could recall no other house near by violence with a certain callousness. with corpses, almost unmoved. But -the victim a man whom as a boy I had been taught to respect and revere. alone caused me to note something negro? Was he victim, or accomplice? the animal would not respond even to Satisfied now that Taylor had left the spur, and I dismounted better to the house, and escaped from the scene ascertain the cause of his fright. The of his crime, I hastily searched the negro lay there, dead as his master, a upper rooms, but found no trace of knife thrust in his heart. Then it was any other occupant. The servant was Taylor who alone had done the foul not there, nor had any bed, except my deed-and he had left no witnesses own, been occupied, or disarranged. behind. Why had the fiend spared me Then Sam must have gone with the in his bloody work? There could be mountaineer in his hasty flight-must but one reason-a thought in his cunbe equally guilty. This was the only ning brain that I would be the one CLOVER of the conclusion possible, and the knowl- suspected—I, a helpless, unknown edge that I was left there alone renstranger, wearing the Confederate unidered my own position more precarform, condemned by my own revolver jous. Harwood had mentioned no as lying heside the correspond to the conclusion possible, and the knowl- suspected-I, a helpless, unknown ious. Harwood had mentioned no es- lying beside the corpse-a hope that cort, yet surely he had never ventured he would thus escape unfollowed. If into this doubtful region without hav- he took such pains to cast suspicion ing soldiers within call. No doubt they on me, the man must have been aware were quartered in the village, who, if that Major Harwood was not alone; he failed to appear when expected, that his death would be quickly diswould search for him. Before they covered, and effort made to avenge it.

came, and made discovery of the dead. There was nothing I could do, but body, I must be safely beyond reach. flee swiftly through the night. My own If found there, no defense, no asser- position was now far too desperate to vation of innocence, would ever save permit of my giving any alarm, or me from condemnation. Their ven- seeking to trace the murderer. To fall geance would be swift and merciless. into Union hands would be my death Thinking now only of my own escape warrant, irrespective of Harwood's unobserved, I crept back down the fate, and my duty lay in carrying out stairs, my nerves shaken, extinguished the orders of "Old Jack." To allow



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myself to be captured would spoil evindeed dead, I led my trembling horse question me?" past the motionless body, seeking as direction the murderer had disappear- party. ed. But in this I failed, the night beed to the left. I had no knowledge as of the Twelfth Pennsylvania Cavalry." to where this road—apparently not a from Hot Springs. To venture back rival. You know Major Harwood, no through that hamlet might, indeed, doubt." expose me to discovery, yet once bewith greater confidence. Besides, the vice, sir?" hour was late; there was small stray traveler, or find any pickets posted.

I rode toward the town as rapidly as I dared, watchful of every deepening shadow, until I came to the first the name Taylor." straggling houses. These were dark and silent, and not so much as a dog barked as I walked my horse cautiously forward toward the main street. I saw but one dim light streaming out through an uncurtained window of what looked like a law office, and passed close enough to learn that a group of men within were playing cards. I could glimpse their shadows, but was unable to determine if any among them were in uniform. Yet few men were at home in those days, and it was highly probable these belonged to the Major's escort. I passed the place unobserved, and rode on into immediate danger. At what I took to be the tavern corner I discovered the road leading to the left, and turned in that direction, assured that it would lead directly into the heart of Green Briar. At a little stream unbridged, I watered my horse, which drank greedily, and then climbed the opposite bank. The road ran through thick woods, the darkness intense, and as the way was silent and seemed deserted I gave the animal the spur.

I must have loped along thus for ten minutes, all thought of pursuit already dismissed, and my mind occupied with plans for the future, when the woods suddenly ended in a bare ridge, the ribbon of road reavealing itself under the soft glow of the stars. I know not why I heard no sound of warning, but at the instant, a half dozen shadows loomed up, blocking the path. I barely had time to rein in my horse before we were intermingled, the surprise evidently mutual, although one of the newcomers was swift enough to seize my animal's bit, and hold him plunging in fright. I clung to the stirrups, aware of the flash of a weapon in my face, and an oath uttered in a gruff voice.

"In God's name! where did you come from? Here, Snow, see what this fellow looks like."

The speaker had a wide brimmed hat, drawn low over his face, and a cape concealed his uniform. But Snow wore the cap of the Federal cavalry, and I knew I had fallen into Yankee hands.

CHAPTER V.

I Join the Federal Cavalry.

SHOOK off the grip of the latter's hand from my arm.

"I have no objection to telling you my name and rank," I said coldly, "but lower that gun first; I am in

voice employed had greater effect on the fellow than the evidence of his

"So I see," but with no cordiality in the words. "But that is hardly con- for some recognition, but the Captain vincing. Federal officers are rare did not appear to recall any such birds who ride these roads alone. Who character. are you, sir, and why are you here?"

"Perhaps I may be privileged to ask erything. Satisfied that the negro was first by what authority you halt and

He laughed, and waved the weapon I did so to learn, if possible in which he still held toward the others of his

"Our force alone is sufficient auing so dark there was no tracing of thority I should suppose. However, I horse's hoofs on the hard roadway. I will set your mind at rest-I am Capswung back into the saddle and turn- tain Fox, in command of a detachment

"Oh, yes," I responded more pleasmain highway-led, but I was ac- antly, "of General Ramsay's command. quainted with the pike running west You had left Charleston before my ar-

"We are of his escort," both susyond the village I should be travers- picion and command lost before my ing familiar ground, and could proceed cool assurance. "You are in the ser-

"Third United States Cavalry; chance that I would encounter any recruiting detail. I was to meet Harwood at Hot Springs, but was told he had gone to Green Briar."

"By whom?"

"A scout I met by chance; he gave

The Captain swore grimly, glancing across my horse into the face of the trooper opposite.

"By all the gods, that's rather odd!" he exclaimed in apparent surprise. "That was the name of the man the Major expected to meet, wasn't it Snow?"

"It was, sir."

"And he told you the Major had gone west to Green Briar? That isn't true, for this is the Green Briar road, and we have met no one. Were there no soldiers in Hot Springs?"

"I saw a group playing cards, but there were no sentries. The men had the night, feeling I had escaped from no knowledge of where Major Harwood had gone; only that he had left the village."

"Well, this stumps me!" his voice grown suddenly harder. "It doesn't sound straight, for we left him safely in Hot Springs an hour before sundown, and he had no purpose at that time except to wait there for Taylor. Do you carry any papers?"

I drew the official envelope from my pocket, and held it out to him calmly. He opened the flap."

"A little light, Snow-yes, a match will do."

The flame lit up their faces-the officer a thin-faced man with moustache and imperial, his teeth oddly prominent; the trooper older in years, but smooth-shaven, with deep-set eyes and square chin. Their uniforms were dusty and well worn. The others, clustered behind, remained mere shadows. The Captain took in the nature of the document at a glance, and I marked a change in his expression before the match went out.

"Oh, I see-you are Lieutenant Ray mond. Got to us earlier than you expected. Find many recruits north?"

"No," I answered, taken completely by surprise, but managing to control my voice. "That was why I thought I might accomplish more in this section. Those counties have been combed over." I hesitated an instant, and yet it was best for me to learn what I could. "I was not aware, Captain, that my projected visit had been announced.'

He laughed, and the second match went out, leaving us again in darkness.

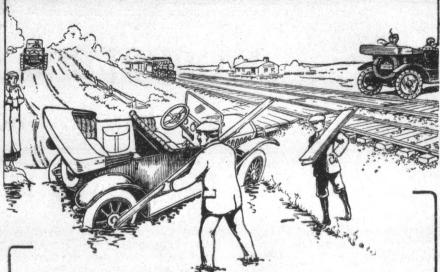
"Nor was it, officially; merely a friendly letter from an officer on Heitzelmann's staff to our Major, asking for you a friendly reception. Camp gossip brought the news to me. You knew Harwood?"

"No; only General Ramsay advised me to confer with him, because of his The rather contemptuous tone of intimate knowledge of this section. He belonged, I believe in Green Briar?"

"Yes, we were at his place yestereyes. His arm fell to his side, al-day; south of Lewisburg. What sort though he still retained a grasp on my of a looking man was this fellow Taylor?"

I described him minutely, hoping

(Continued next week).



Loss of Traction May Mean Loss of Life

Skidding is entirely due to a loss of traction. In other words, the momentum of the machine is in excess of its traction when an attempt is made to alter the direction of travel on a slippery surface. The moving body overcomes the very slight adhesion of the rear tires, and they slide in the direction they were originally moving, instead of following the path of the front wheels.

So you see the importance of using Weed Chains, when the road surface is muddy and slippery. They automatically lay their own traction. Being free to creep, the cross members are always there to place a traction surface in front of the tires just the same as if a carpet of pebbles was laid on the road in front of the wheels. The average farmer with his practical knowledge of mechanics can easily see the sense of this argument and will equip his car with

Anti-Skid

The only device that absolutely prevents skidding

Many lives have been lost; many cars have been damaged and wrecked; much time has been wasted; because of lack of caution and because of foolish dependence on Rubber alone.

Weed Chains have proved their effi-ciency so completely during the last 7 or 8 years that there is no room for argument. No dwice has ever been invented that takes their place. They neverfail and are the greatest insurance against disaster that has ever been offered to motorists.

Weed Chains cost very little—are put on in a moment, without a jack—take up searcely any room in your car and do not injure tires even as much as one little skid.

Records show that over 90 per cent of Records show that over 99 per cent of all registered owners of automobiles are now using Weed Chains and this proves their real necessity. If your car is not equipped with Weed Chains, it's because they have not been brought to your notice and we believe every reader of this paper is wise enough to adopt this greatest safety device—the only sure and dependable means of preventing a skid.

For your own safety, for the safety of the public, for your own peace of mind—stop at your dealers today and buy Weed Chains for all four tires.



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MORE MONEY TO THE FARMER

WHETHER the day's goin' to be "fair and warmer," or "cloudy and shiftin' winds" depends mo' on yo' self than on the weather man Velvet goe And it depends a lot on your pipe, too, Fill it with the sunny comfort of Kentucky's Burley de Luxe, age-mellowed into VELVET, The Smoothest Smoking Tobacco. Then "it's always fair weather with you." 10c tins and 5c metal-lined bags. Liggetta Myers Tobacco Co



Don't Try to Alter the World

ITTLE things, yes, little things, What's that you have on your head? make up the sum of living."

that, but whoever the philosopher, he won't need to wear one of those dust only made a universal discovery. All caps at the breakfast table." of us find out sooner or later that it really isn't the big things in life which indeed. That lamb died of old age.

pends upon something big. If we only cheat you." could have a fortune, or if we could Every breakfast is a nightmare, betake a trip around the world, or if we cause practically every member of the could become the social leader in our family will come in for a rap from set we think our happiness would be father for something which really assured. How often we've said, "If I does not matter. If he enjoys the meal

I must ask you to take time in the I do not know who first said morning to comb your hair so you

"What's this? Lamb chops? Lamb, count, but the little unnoticed daily If you can't tell lamb from mutton, happenings which make or break us. my dear, you had better hunt up a So often we think happiness de-butcher who is honest enough not to

Flowers Add Much to the Enjoyment of Farm Life.

as its head.

trouble is that father is a chronic little things. fault-finder. You might even go farther It always seems too bad that one and say he is a confirmed grouch, person can make so many unhappy Mother knows that the breakfast-table over nothing at all that counts. It is conversation will run something like bad enough when a family is plunged

ably be spoiled in the making."

"Charles, leave the table at once ings must you be told about it?"

single bad habit that he wrecks his has cast over them is never entirely comes. A cellar that will keep potaown home. He doesn't drink nor gam- gone. No one ever breathes a deep, toes will be all right for dahlia roots. ble nor stay out nights nor beat the free, happy breath because of father. In the spring these roots should be

rather inclined to be over-generous Sometimes it is the daughter who has start, showing which are all right; you a couple of pictures of my dahlias with his money, goes to church of Sun- been away from home and learned days, stands for everything which is new ways which she thinks are better good in the community, and is looked than the home ways. She scolds mothupon as a model citizen. If you asked er, ridicules father, bosses small sishis opinion he would tell you he was ter and tries to boss brother, all over a model husband and father, and his things which are really not vital. Just family were mighty lucky to have him the little things, like the way to dip up soup or where to put the napkin, But at the same time every member or how to hold the fork, or the mud of the family breathes a sigh of relief that is tracked in. The family are unwhen he leaves mornings, and there happy, not because they are poor or are no expressions of joy when it is hungry or in disgrace, but because time for him to return at night. The someone is constantly nagging about

into unhappiness by the deliberate "For Heaven's sake, what ails this wrong-doing of a member. But that is It tastes like dishwater. It the sort of unhappiness one can outseems to me, with all the money I grow. Time dulls all the big sudden thus you need have no gaps in your and would like to tell the flower lovday?

and wash your face. How many morn- stand them? Why should we submit from the main stock. to the fault-finder just to keep the

DEBORAH.

PLEASURE AND PROFIT FROM THE FLOWER GARDEN.

BY MRS. E. O. SWOPE.

those of the geranium and dahlia. I that both the geranium and dahlia about four feet apart each way. If ting very rare combinations of colors, ties grow large. If sown early in the house, and transmore flowers than they did the first than the supply.

for house culture and for the flower April when the ground is moist, and it garden, and small plants can be start- will root quickly. But it can be started from slips. The dahlia is just as ed in June if the ground is not too could only have this one thing I'd ask he is the only one who does. The rest satisfactory for the flower garden, fur-dry. From an ordinary sized bush a nothing more of life." But we would. are kept in a constant state of appre- nishing an abundance of flowers, and large number of cuttings can be tak-Happiness is pretty closely depend- hension lest some chance remark or the more they are gathered, the more en, as it is a rank grower, and needs ent upon the little things of life. In act turn his attention to them. He flowers will come. They are very lots of trimming. In a year they are all too many homes it is driven out by leaves the house with parting shots much like the sweet pea in this re- ready for market, and will bring 15 the constant ill-tempers of only one for mother who has hung something spect, and they will do better if all to 25 cents if well grown. They will member. There is one family where over his coat or forgotten to mend the dead flowers are removed. They will grow for anyone and almost anyit is father who completely destroys rip in his glove or sew on the button bloom until killed by frost. The roots where. This variety is a good one for the happiness and comfort of the en- which is half off, and then the family should be lifted and stored in the cel- the northern states, and is a favorite tire family of five. And it is by no livens up a bit. But the depression he lar before hard freezing weather in Michigan. family nor starve them. In fact, he is It isn't the father in every home, set out of doors, when the sprouts will

themselves to circumstances, instead After having the flowers on the marof trying to change everything and ev- ket through the summer, take some of eryone to suit their own whims. You your surplus roots to market during will be saving a deal of discomfort for the next spring and see how readily your own immediate family, not to they will sell. You will be surprised mention the family of the next gener- to see how many flower lovers there really are near you. These roots will bring from five cents each for the mixed varieties to ten cents for the specially named sorts.

Now first, a word about setting out the roots. Do not put into the ground Recently in making out a seed or until it is warm, or they are likely to der, among other seeds ordered were rot and not grow. The first of May is about the right time in this latitude, just wonder how many of the flower about the middle of May being right lovers of the Michigan Farmer know for the more northern latitudes. Set can be grown from seed as easily as the roots are six feet apart it is bettomatoes. In fact, this is the way the ter, especially if we have to go among new kinds are stafted, one often get- them much, as the tops of most varie-

I wonder how many know that there planted into good garden soil after are hundreds of different kinds of dahdanger of frost is past, they will lias. A neighbor of mine had several bloom the first year, and in the case hundred different kinds last year. of geraniums will make nice plants They were beyond description when for the house the following winter. If out in full bloom. These people get not wanted in the windows, they can roots from many different countries, be packed back into boxes and stored and their beds are very near perfecin the cellar until spring, when they tion in every respect. They sell flowmust be trimmed back and set out in ers in many of the larger eastern citthe ground, where they will produce ies, and the demand is always greater

A flower that can be started from While geranium flowers are not so cuttings is the rose. The Dorothy Perpopular as those of the dahlia, there kins is a nice variety and an easy one is always a call for the plants, both to get started. I have started this in

LETTER BOX.

Household Editor:-I am sending



Dahlias Blossom Abundantly when Planted in Rich Soil.

provide you might get decent coffee, hurts. But who can withstand the lit- rows from some of them not growing. ers of the Michigan Farmer how I at least. But if you did it would prob- tle, trying, nagging hurts of every- You need not set a whole bunch in raised them. It may be out of date one place, as each root that has a now, but we are all so busy in the As a matter of fact, why should we sprout started will grow, if separated spring that I am afraid I should forget it. I had been spading an old hog These dahlias can be made a source lot near the house so my chicks could "Mary, sit still in your chair. That peace? Why not say right out that of profit as well as a pleasure, as the get worms, and I thought the ground constant wiggling is enough to drive life is a process of adjustments to lit- flowers sell readily at 25 cents a doz- looked so good it would do for my a man insane. I should think your tle things and that no one can expect en to the larger country markets and dahlia bulbs. I spaded across, then mother would teach you that repose to have his own way about everything, to automobile parties, etc., six dozen dropped bulbs about a foot apart, is most desirable in young ladies. Insist that your children shall adapt flowers making a gorgeous bouquet, then I spaded across and did not put

about a foot each way. This made for I never had such beautiful flowers. them rather close, but I wanted to get They were just one mass of bloom

any in, so it made every other row ble. I think I just hit the right way rid of those bulbs as quickly as possi- from July until October.—Mrs. J. M. C.

The Needs of a Farmer's Wife.

AM not going to speak of the phy- worries to ourselves as we counts. Whether she does it because she has to makes all the difference.

To one who likes the country, has a genuine love for all growing things, a I knew a lady who lived in a city who supported herself and little son by sewing hooks and eyes on cards for one of the department stores. That seemed to me a very hard and uncertain way of making a living and I thought how much better it would be if she would come out in the country. I asked her how she would like living on a farm.

"Oh, my," said she, "I wouldn't do that for anything. I couldn't stand it." She said she had gone out and kept house for her sister who lived on a farm, for a week while she was away, and it nearly killed her. She had to run every time a hen cackled to get the eggs, to make butter, to keep the hens out of the garden and do a dozen other things all at once. Oh, no, she couldn't, she just couldn't do it. Evidently she didn't like the work and saw only the hard side of it.

I think the "always at it," never get of farm work, is the most discouraging; the thought that there is no place to stop, the doing the same things the ing, perhaps, of all our tasks is the but killing in effect. planning and cooking of meals. The just ahead. Change your thoughts. It off whenever it is possible and be dreading most is not so bad after all, all those little worry moths in a box, when we get to it.

beyond our strength, doing unneces- and no one will know you are a farmsary things, just for fear of what the er's wife. Here is another. Get your neighbors will think or say. Who lecturer to let you write and read a among them will know or care a year paper for a Farmers' Institute or a from now whether we washed on Mon- Grange meeting. That will start a day, ironed on Tuesday, baked on new set of worry moths to working, Wed-aday, patched on Thursday, maybe kill off some of the smaller swept on Friday, baked on Saturday ones. At least they won't get a chance for a Grange supper at night, or a big to do much damage for a week or two. family dinner on Sunday? Or whether Get all the sunshine you can inside we spent half that time enjoying our- and out. Go out in the fields once in selves doing something else, coming out at the end of the year with few quiet moments by yourself. Perstrength enough to go all over it haps when you return you will again? The way we live, our lives, something like this:

The little cares that fretted me, I lost them yesterday Among the fields above the sea, Among the lowing of the herds, The rustling of the trees, Among the singing of the birds, The humming of the bees. strength enough to go all over it haps when you return you will feel

but I won't do his worrying." Sensible. I hope she stuck to it. We have no right to ask anyone to help us worry. Everybody has troubles of his own. I really think that anyone having a bad case of worry ought to be quarantined. It is not only dangerous but contagious. We should keep our

sical needs of a farmer's wife, but great secret. Every year we tear our of what I consider of more import- houses to pieces for a general cleanance, her mental needs. "As a man ing out. We paint, paper, calsomine, thinketh in his heart, so is he," and make everything clean and fresh, putwhat she thinks of her work, rather ting in new things, changing every than her manner of doing it, is what thing as much as possible. Now, wouldn't it be well when we have everything settled to our satisfaction, to have a mental cleaning out? "Cleanliness is next to Godliness." I believe farm life would be the pleasantest of that means clean minds as well as all, but to be a success she must like clean dwelling places. Then let us get the dust and cobwebs out of our brains, get rid of all the rubbish that has collected there in the past year. Replace the old thoughts with new ones, changing our minds as completely as we do the houses in which we live. Let us fumigate our minds from those little worry thoughts, just as we do our closets for moths, for they really are mental moths of the deadliest kind, and especially fatal to farmers' wives. All kinds of formulas are being sent out yearly for destroying the moths and insects that kill our trees and vegetation, but no one has ever thought of anything for this worst of all, the worry moth, more destructive by far than any other kind. It eats holes in our pleasures. It paralyzes the brain and destroys the body. It has been said that one could always tell a farmer's wife by her tired look. Probably that is because she always has a bunch of these worry moths with her and is worrying for fear the through, never have a minute off, part hawks will take her chickens, the little pigs tear up the garden, the children will set the house on fire or leave the screen door open and let all same way every day. The most try- the flies in. Little things, all of them,

Now no one would think of running answer to this question, "What shall a cream separator, a sewing machine I get to eat?" has destroyed the peace or any other piece of machinery withof mind of more than one woman, and out keeping it well oiled. Change to I think if the inscription on every minds is what oil is to machinery, and woman's tombstone read, "Died of too farmers' wives are especially in need much cooking," it would be more near- of that kind of oil to keep them runly true than any other thing. It cer- ning and in good condition. The greattainly would be if she stopped to est and best change of all, and what think of the three meals a day, 365 you most need, is a change of mind. days, 1095 meals, she had to get in a That sounds very simple and easy, year. But don't think of it, for if you but you will find it the hardest of all do you may not be able to get every things to do. The old worries and old one of them. "Sufficient unto the day, habits beset us on every hand. But is the evil thereof." Don't get them try this. Try doing the old things in till it's time. Perhaps you might go a new way. This is a day of progresvisiting or be sick a week or two and sion. Perhaps you might discover a not have to get all the 1095 meals. new way even in dishwashing. That Try, anyway, to think only of the one would benefit the world. Take a day often happens that the thing we are sure, very sure, before you go to put lock them up and lose the key. Per-And how many of us are working haps you won't have that tired look a while, away from everything for a

Where drowsy poppies nod, Where all thoughts die and good are out in the fields with God.

MRS. G. BARTHOLOMEW.

Dodge Brothers MOTOR CAR

When you ride in it you will realize that it has all the responsiveness, comfort and power you wantina car. It gets away instantaneously and skims the road silently and smoothly without motor vibration or sidesway at high speed. The motor seems always to have more and still more power when occasion requires.

There is no choking at low speed in high gear, and there is an unusual freedom from gear shifting. At full speed there is scarcely a tremor of the motor.

These qualities evidence the fine engineering skill that has been employed in manufacturing and assembling the entire power plant, but they are not the only qualities that enable you to realize to the full the delights of motoring.

The one-man top with its Jiffy curtains, for example, assures you instant protection against inclement weather, and the car's unusual roominess, the depth and softness of the real leather upholstery with its filling of natural curled hair, the design of the seats, and the buoyancy and sensitiveness of the selflubricating springs, make you unmindful of distance.

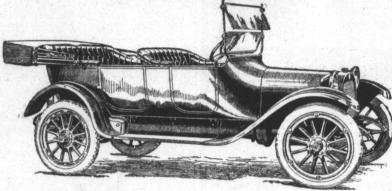
The 30-35 horsepower motor is cast en bloc with removable head which allows the valves and pistons to be easily cleaned. The rear axle is of the full floating type with Timken bearings thruout. Imported Swiss bearings are used in the clutch and transmission.

The electrical equipment includes a waterproof Eisemann magneto for ignition and a 12 volt Northeast motor generator for the starting and lighting system.

The steel body, finished in ebony black, has a pure streamline from tonneau to radiator. The oval moulded fenders, the graceful cowl and the shapely hood, are all distinctive in appearance.

These features are evidence of quality, but no list of specifications can tell you the story of the car as completely or as convincingly as the car itself.

The wheelbase is 110 inches The price of the car complete is \$785 (f. o. b. Detroit) Canadian price \$1100 (add freight from Detroit)



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EDWARDS Farm Commerce.

Does Co-operation Hurt Home Town?

N the inception and advancement ruin or hurt the prosperity of any town. of the co-operative movement in town in any locality, would be a short-tends to distribute wealth among the sighted and dangerous policy to pur- producers of a community, must tend

The Opposing Factors.

When the first co-operative association in this section was organized, the sequent events have proved that the barrel salt, etc., are among the underthe general business of the town, it is safe to say that these features will has continued to prosper. Indeed, if be developed only so far as the farmanything, the business in this town er feels he is not getting a square deal. community. has increased, due to the fact that Market men and dealers in the above farmers for miles around have taken named commodities need have little their live stock to that station for fear of ruined business unless their shipment, and as a consequence, have own business methods provoke the asgiven the local merchants trade that sociation into forming rival establishwould not have come under normal ments. In the main, these co-operashipping associations in other nearby prises as out of their sphere. They towns, of course much of this trade is do realize, however, that in organizareturning to its natural center. But, tion there is strength, and that a with this foreign trade withdrawn, strong co-operative association places ciation has been doing a thriving bus- interests. When local dealers know business carried on.

Greatest Good to Greatest Number. result. In dealing with the question under

consideration, let it be remembered that co-operation in this section has

gument been advanced that a consid- community, but rather, keeps it there worth while. Let us see if, in the of placing it in the hands of a few. light of facts, the contention has any More profits for the farmer means that the ruin of the business of the which he lives. Any movement which

> to increase rather than diminish the prosperity of that community. Seeks Just Business Conditions.

A Few May Suffer for the Good of Many.

In the farmers' co-operative associa- the worst existing anywhere. for the most part, taken the form of tions which are sweeping over this thousands of dollars have been spent shipping associations. One co-opera- section with amazing rapidity, every in reducing this grade but the hill still tive creamery has been doing a suc-student of the times recognizes a new is formidable, whether one is going cessful business for a number of years, and inevitable product of our modern up or down. and talk may be heard of co-operative industrial life. Just as modern condikraut factories and other kindred con- tions have produced the labor unions truck for the past year and has been cerns. Now, all this is in the line of and made them essential to the wel- able to save much time and money the farmer's business. It eliminates fare of the laboring class, so now, with this machine. The truck climbs a few well-paid men, of course, mid- they are producing the co-operative the hill without any trouble. dlemen, such as stock buyers and op- associations essential to the welfare time is saved since now the loaded erators of creameries and kindred of the tillers of the soil. The man machine makes the trip down town, is concerns. But in the nature of the who tries to stem the tide or fight unloaded and back again at the farm case, it is difficult to see how co-oper- this movement, has failed to grasp within an hour. Pneumatic tires are ative business along these lines will the significance of the co-operative used and a bushel of apples set on the

idea. If a few middlemen suffer, thousands of producers gain.

The co-operative movement is doing more to solve the problem of giving the producer his just share, than any other movement has ever done. Modern conditions have made the step imperative. Laborers in other lines organized long ago. Business men have for a long time, had their organiza-The arguments, indeed, are all on tions. Why should not the farmers this section, the most frequent and the other side. In its very nature, co- organize for mutual profit and protecpowerful argument used by the oppo- operation stands for the greatest good tion? The cry that the movement will sition has been the cry that the for- to the greatest number. It gives to ruin the home town, can not check its mation of these associations would the producer something like his just, progress. Moreover, as has been ruin the business of the home town. share of the profits of his labor. It shown, the cry is groundless. To So insistent and so often has this ar- does not take the money out of the bring the greatest good to the greatest number; to bring the producer and the eration of the proposition will prove and distributes it among many instead consumer closer together; to protect the tillers of the soil against those who would take from them more than foundation. Certainly, all will agree more business done in the locality in a reasonable share; these are some of the basic principles of the co-operative movement.

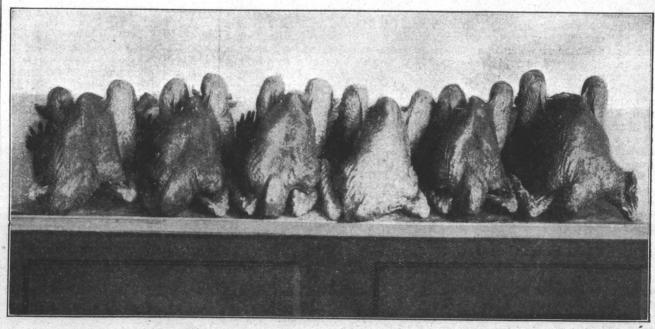
It is folly to stand in the way of an institution so obviously fair and just. To take what is offered for his products and to pay the price set by oth-But in fairness to those who have ers for commodities he must purchase, local paper, the business men of the exerted their influence in checking the this condition has long been a galling village, and above all, the local stock co-operative movement, let it be said one to the farmer. The co-operative buyers, spared no effort in their pow- that co-operation may and has taken movement is relieving the strain. The er to defeat the project. But in spite other forms beside those mentioned, movement is doing another thing, too, of this opposition, the association was In one town, a co-operative meat mar- sorely needed among farmers. It is formed and began doing business as a ket has gone into operation. Ware- teaching business methods. If the co-operative shipping association. Sub- houses for the storing of mill-feed, movement has its disadvantages, these have yet to appear. Measured stock buyers alone had fought the takings which might decrease the bus- broadly and comprehensively, co-opermovement with good reason. As for iness of individuals in a town. But it ation would seem to be a mighty good thing, not only for the farmer, but for the home town and for the entire

> Hillsdale Co. J. A. KAISER.

GROWING USE OF MOTOR TRUCKS.

Henry Smith, of Kent county, treasconditions. With the formation of tive associations consider such enter- urer of the Michigan State Horticultural Society, prominent florist, fruit grower and farmer, is using motordrawn power almost exclusively now between city and farm and says that this town where a co-operative asso- them in a position to safeguard their he would not think of going back to horses. His farm, orchards and batiness for more than two years, shows there is a power in the community tery of greenhouses, with the largest no decrease in the amount of general which is able to put them out of busi- area under glass in the state, are loness, square dealing is very likely to cated on the Bridge street road, a mile west of the city, and the long steep hill that must be climbed in leaving the city, is without question one of

Mr. Smith has been using a four-ton



Some Farmers Having Egg and Butter Customers in Cities, Enlarged their Direct Selling Operations this Spring by Adding Dressed Poultry for which they Realized Handsomely on Account of the Good Prices Ruling.

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Are low in cost, easily built, and give satisfaction over the cost of the cost



running board without being tied on will ride safely. For very heavy hauling Mr. Smith would recommend hard rubber tires. He says the cost of upkeep of the machine is very small. The truck is used in hauling fruit to market, and is home again early in the morning, and when horses were used the rigs did not get back before noon.

Mr. Smith uses smaller cars for lighter delivery service. Since trucks cost \$1,500 to \$2,000, he says that people ought not to make the investment unless they have a reasonable amount of work for them. They pay, and pay well, if you can use them. He does not use a trailer.

Frank Baldwin, a farmer living on the river road, nine miles from Grand Rapids, is using two trucks in hauling fruit and farm produce to market. He started with one machine and was so well pleased with results that he has added another one.

A local canning company used motor trucks in strawberry harvest last year, making two round trips between Grand Rapids and Kent City, a distance of 22 miles, between 6:00 p. m. and daylight. These same machines were in use all day in Grand Rapids by a trucking concern, and so were utilized night and day for some time. This is the ideal with motor trucks, or machinery of any kind, to keep them working all the time, with no rusting periods between. The possibilities with the truck are almost infinite.

ALMOND GRIFFEN. Kent Co.

Crop and Market Notes.

Michigan.

Calhoun Co., April 20.—Oat sowing is well under way, and some are plowing for beans and corn. There will be a considerable amount of beans planted. Rye looks fine and there is a large acreage. Not much wheat sown last fall. Sheep shearing is under way, with a nice crop of wool, and sheep are looking fine.

Cheboygan Co., April 19.—Wheat and rye came out of the winter in good shape, and prospects are for good crops. No oats sown yet but farmers are preparing the ground for seeding. Potatoes 24c; corn 40c per basket; wheat \$1.30; oats 75c per bu; butter 30c; eggs 20c.

Delta Co., April 19.—Weather fine and farmers have begun plowing. Lots of hay but not much grain in farmers' hands. Large quantities of potatoes on hand, and not much demand for them. Potatoes 25c; wheat \$1.62; oats 62½c; barley 85c; Canadian peas for seed \$3.

Emmet Co., April 19.—Cool, backward weather is delaying farm work. Meadows and winter grain have come out in fair to good condition. It is probable that the acreage planted to potatoes will be decreased and the amount of beans planted increased.

Gratiot Co., April 20.—Weather conditions ideal. Roads are splendid. Oat seeding has begun, and it is expected that the acreage will be larger than usual. Much grass seeding is being done on both wheat and oat ground. Wheat is looking better than usual for this date. There has been but little rain, farm work has been rushed and is well advanced. Corn and bean ground is being fitted. Butter-fat 27c; milk \$1.25 per cwt; eggs 18c.

New York.

Niagara Co., April 20.—Fine spring weather and spring work is progress.

New York. New York.

Niagara Co., April 20.—Fine spring weather and spring work is progressing in fine shape, on account of no rain. Condition of meadows and winter grains good. Peaches have been sprayed, and the peach buds seem to be abundant, other fruits ordinary. Some wheat in farmers' hands, selling at \$1.40; oats 70c; hay \$13; clover seed \$10; beans, white \$2.75; red beans \$32; eggs 18c; butter 25c. Cab. beans \$3; eggs 18c; butter 25c. Cab-bage all cleaned up.

Pennsylvania.

Crawford Co., April 20.—It has been rather dry, and roads are fine. Meadows and grain we're injured somewhat by the late freezing, but wheat looks well now. Spring work has commenced and some have oats sowed. It is (Continued on page 538).

"Try-a-bag" of fertilizer. Our brands are soluble and active, and not only increase yield, but improve quality and hasten maturity. Agents wanted. Address American Agricultural Chemical Co., Cleveland, Cincinnati, Detroit or Baltimore.-Adv.



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an Adviance knotter. Only one set across to tighten or leasen as the case may be knotter made—no toggles or delicate parts to get out of order. Any boy can adjust an Adriance knotter. Only one set screw to tighten or loosen as the case may be. Binder is driven direct from gear shaft. Chain has nothing to do but drive the binding parts. No extra strain on the elevator chain, which means no chain trouble. Rollers have self aligning boxes which always run free no matter what position. No twisting strain can cause them to bind and cut out bearings.

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Markets.

WEATHER FORECAST.

For Week Beginning April 28. By U.
S. Weather Bureau.
In the region of the great lakes mild temperatures for the season are probable until after the first of May, when lower temperatures will set in. The week will give local showers at its beginning and again after April 30, but on the whole it will be one of generally fair weather.

In the region of the great lakes mild temperatures for the season are probable until after the first of May, when shower temperatures will set in. The week will give local showers at its beginning and again after April 30, but on the whole it will be one of generally fair weather.

In the region of the great lakes mild temperatures for the week springers. Chicago.—Market is easy and quiet at is 28c.

Poultry.—Small supply keeps market firm at unchanged prices. Live.—Springers 17½@18c; hens 13@18c; ducks 17@18c; geese 12@13c.

Chicago.—Market is easy and quiet at is 28c.

Poultry.—Small supply keeps market firm at unchanged prices. Live.—Springers 17½@18c; hens 13@18c; ducks 17@18c; geese 12@13c.

Chicago.—Market is steady at unchanged prices. The supply and the demand are good. Fowls 14½@15c; solution for the week is 28c.

Poultry.—Small supply keeps market firm at unchanged prices. Live.—Springers 17½@18c; hens 13@18c; ducks 17@18c; beginners 17@18c; persent 13@18c; ducks 17@18c; hens 13@18c; hens 13@18c;

GRAINS AND SEEDS.

April 27, 1915.

Wheat.—The bulls have had general control of the grain market during the past week, and prices are ruling a little higher. Foreign demand is strong. Opposed to the European situation is the general crop prospects in this country. While the grain is suffering in some sections from lack of moisture, the country as a whole has promise of a big harvest, providing conditions continue normal. The American visible supply decreased nearly 4,000,000 bushels last week and is 16,500,000 bushels below the supply is 16,500,000 bushels below the supply of a year ago. The price then for No. 2 red wheat was 98%c per bushel. Quotations are as follows:

No. 1 No. 2 Red. White.

Wednesday .1.59 1.55

Thursday .1.58 1.54

Friday .1.60 1.56 July. 1.35 1.35 1.37½ 1.38½ 1.37 1.56 1.57 1.571.61 Saturday

Saturday 1.61 1.57 1.38½
Monday 1.61 1.57 1.37
Tuesday 1.59½ 1.55½ 1.34½
Chicago, (April 26)—No. 2 red
wheat \$1.64¾ @1.65¼; May \$1.645½c;
July \$1.37½c.
Corn.—Corn has changed with
wheat. Country offerings have been
fair, but the visible supply shows a
decrease of over 4,000,000 bushels. Argentine crop is somewhat disappointing. Weather conditions have been
favorable for planting. One year ago
No. 3 corn was selling at 68c per bu.
Quotations are as follows:

Quotations are as follows: No. 3 Mixed. Yellow.
79 80
79 80 Wednesday Thursday
Friday
Saturday
Monday
Tuesday
Chicae (April 26)

	No. 3
	White.
Wednesday 61	60 1/2
Thursday 61	60 1/2
Friday 60½	60
Saturday 60½	60
Monday 60 1/2	60
Tuesday 58½	58
Chicago, (April 26).—Standard	doats

Chicago, (April 26).—Standard oats 57½ @57¾ c; May 56½ c; July 55% c. Rye.—Quotations have been marked up four cents on the local market the past week. There appears to be very little of this grain in sight. Cash No. 2 \$1.16 per bushel.

Beans.—Inactive and 5c lower, The Detroit quotations are: Cash \$2.95; June \$3.05. Chicago trade is ordinary and firm. Pea beans, hand-picked, choice, quoted at \$3.10@3.25; common \$2.90@3; red kidneys \$3.25@3.65. At Greenville beans are steady at \$2.70 per bushel.

Feed.—In 100-lb. sacks, jobbing lots are: Bran \$28; standard middlings \$30; fine middlings \$32; coarse corn meal \$32; corn and oat chop \$30 per

no accumulation is reported. Extra creamery 28c; extra firsts 27@27½c; firsts 25@26½c; seconds 22@24c; packing stock 18c.

Elgin.—Market is easy and quiet at

Chicago.—Market steady at slightly lower prices. Liberal receipts are being readily disposed of. Miscellaneous lots, cases included 17@19¼; ordinary firsts 17½@18¼c; firsts 18½@19¼c

Nary firsts 17½@18½c; firsts 18½@19½c.
Veal.—Quoted steady at 12½@13c for fancy, and 10@11c for common.
Pork.—Market is steady for dressed hogs, light weights selling at \$8 per cwt; heavy \$7@7.50.

FRUITS AND VEGETABLES.

Apples.—Market is firm at unchanged prices. Demand is satisfactory. Baldwins \$3.25@3.50 per bbl; Greenings \$2.75@3; Steele Red \$3.50@3.75; No. 2, 40@50c per bushel.
Chicago.—Market is fair except for fancy goods which are held firmly. Baldwins \$2.50@3.25; Greenings \$3.50@4; Northern Spy \$2.50@6.
Potatoes.—Market steady at slightly higher prices. Carlots 45@47c per bushel. At Chicago the trade is fairly active, but lower prices were necessary to make sales. Michigan white in bulk, are quoted at 35@40c per bu; at Greenville farmers are receiving 25c per bushel, with the outlook lower. All markets dull.

WOOL.

Boston.—The center of interest in domestic wools has moved to the producing sections. Last year's clip is well cleaned up, and cash sales are largely filled with foreign offerings. Regarding the new crop, growers are maintaining a firm position, and while jobbers and speculators are inclined to hold back on making contracts, there seems to be a feeling among them that they will meet the producer more than half way. In the southwest, considerable wool has been contracted at good prices. Manufacturers are receiving large orders from Europe, which is working to the advantage of the producer, because the sup-

DETROIT EASTERN MARKET.

Considering the season, there was a fair number of teams on the market Tuesday morning. Potatoes were in fair supply and held at from 50@55c, depending on quality. Parsnips 75c; carrots 50c; Ben Davis and russet apples \$1@1.15; rhubarb 35c per bunch for good; eggs 23c; no butter in sight. Loose hay ranges from \$19@21 per ton.

GRAND RAPIDS.

Detroit quotations are: Cash \$2.95;
June \$3.05. Chicago trade is ordinary
and firm. Pea beans, hand-picked,
choice, quoted at \$3.10@3.25; common \$2.90@3; red kidneys \$3.25@
3.65. At Greenville beans are steady
at \$2.70 per bushel.

FLOUR AND FEEDS.

Flour.—Jobbing lots in one-eighth
paper sacks are selling on the Detroit
market per 196 lbs., as follows: Best
patent \$7.90; seconds, \$7.70; straight
\$7.30; spring patent \$8.10; rye flour
\$6.70 per barrel.

LIVE STOCK MARKETS.

Buffalo.

April 26, 1915.

(Special Report of Dunning & Stevens, New York Central Stock Yards, Buffalo, N. Y.)

ton.

Hay.—Quotations higher and firm.
Carlots on the track at Detroit are:
No 1 timothy \$17@17.50; standard
\$16@16.50; No. 2, \$15@15.50; light
mixed \$16@16.50; No. 1 mixed \$15@
15.50; No. 1 clover \$13@13.50.
Chicago.—Offerings are moderate
and demand good. Prices are higher.
Choice timothy \$18.50@19.50; No. 1,
\$17@18; No. 2, \$15.50@16.
New York.—Steady. No. 1, \$22@
22.50; No. 2, \$21.50@22.

DAIRY AND POULTRY PRODUCTS.

(Special Report of Dunning & Stevens, New York Central Stock
Yards, Buffalo, N. Y.)
Receipts here today, as follows: Cattle 154 cars; hogs 95 d. d.; sheep and lambs 56 d. d.; calves 2500 head.
With 20,000 cattle reported on the market in Chicago and prices strong 10@15c lower there, and with 154 loads on sale here today and at least 70 loads of the cattle weighing 1,200 and upwards sold fully 25@40c per cwt. lower than last week and at the close of the market there are 10 to 12 loads of weighty cattle, averaging Butter.—Market is easy and lower from 1,350 to 1,450, holding over unprices are expected. Demand moderate. Extra creamery 29c; firsts 28c; quality and good fat, weighing from 1,300 to 1,450, holding over unprices are expected. Demand moderate. Extra creamery 29c; firsts 28c; quality and good fat, weighing from 1,100 down, sold from strong to 10c Chicago.—Trade is good at slightly per cwt. higher than last week and lower prices. The supply is good and everything of the light weight good

quality kind was readily taken early in the day at strong prices. Our ad-vice is to be careful and very conservative in buying these heavy cattle in the country, as it looks to us from this time on that cattle weighing from 1,100 down of good quality and finish will sell decidedly better than the heavy weight cattle.

heavy weight cattle.

We had a full steady market on all grades of hogs today, but trading was a little bit slow owing to liberal supplies and lower prices all over the west. We had about 95 cars of hogs on sale here and demand enough to clean them all up. All good grades sold at 8c per 1b; strictly pigs \$7.85; light stuff quotable as high as 8c per 1b; plain and coarse heavies \$7.50@7.75; roughs \$6.50@6.75, and stags from \$5@6. Late market was about like the opening and very few of anything that had quality left at the close. Weather very hot here and quite a number of hogs arrived dead. Shippers should use caution in loading from this on. Try and have the hogs cooled off before putting in the car.

The market was active today on lambs and sheep, with prices quarter lower than the close of last week; most of the choice handy lambs selling at \$9.75. Look for steady to strong prices last of week with moderate reprices last of week with moderate re-

ceipts. We quote: Lambs \$9.65@9.75; cull We quote: Lambs \$9.65@9.75; cull to fair \$6@9.60; yearlings \$7.75@ 8.35; bucks \$3.50@5.50; handy ewes \$6.50@7; heavy do \$6.50@6.75; wethers \$7.50@7.75; cull sheep \$3@5.50; yeals, choice to extra \$8.75@9; fair to good \$7@8; heavy calves \$5@7.

Chicago.

April 26, 1915.
Cattle. Hogs. Sheep.
Receipts today. 20,000 42,000 11,000
Same day 1914. 19,822 33,592 21,777
Last week..... 42,940 105,781 61,693
Same wk 1014. 48,217 94,536 100,165
It is hot today, and cattle are drinking water freely. This makes buyers disposed to bid lower prices, and while at a late hour little had been done, telegrams were sent to the country calling the general market 10@15c lower, except for fat light cattle, which were scarce last week. Hogs open the week a dime lower, with a \$7.60 top. Sheep and lambs are headed upward, with a reported sale of prime wooled lambs at \$11, a fresh high record.

Cattle were offered more freely

the demand poorer. The poorer class of thin, light steers went at \$6@7.60, while a medium grade of steers brought \$7.65@8, with sales of good steers at \$8.05@8.25, choice heavy beeves going at \$8.30@8.50. The bulk of the steers crossed the scales at \$7.50@8.25, with the better class of little yearlings taken at \$8.50@8.65, while a sale was made of 24 yearling steers and heifers mixed that averaged \$32 lbs. at \$8.80. Good yearlings sold at \$8.05 and upward, and sales were made all the way down to \$7.25@7.50 for a coarse class of yearlings. Butchering cows and heifers were good sellers at \$5@8.50, fat little yearling heifers selling far the highest, while a drove of as choice heavy heifers as has been shown in weeks had to go for \$7.90. The top for choice cows was \$7.25, while cutters went at \$4.40.95, canners at \$2.50@3.95 and bulls at \$4.50@7.50, prime little yearling bulls going the highest. Large supplies of calves arrived from the Wisconsin dairying districts and had a good outlet, prices ranging at \$4.50@9.50, according to weight and quality. The week closed with most of the heavy cattle selling 10@15c lower and light and handy kinds 15@25c higher than a week earlier. Fat heifers advanced sharply.

Aftere prime hogs had risen to \$7.85, the market reacted, closing on Saturday at \$7@7.70 for rough heavy packing to prime light shipping hogs, pigs going at \$5.50@7.50. Prime heavy hogs sold about 20c below the top price. Prices closed 5c higher than a week ago.

Sheep, yearlings and lambs have continued their upward course, bringing the highest figures ever recorded, as follows: Lambs \$8.25@10.80; heavy lambs \$8.75@10; yearlings \$9@10.15; wethers \$8@8.90; ewes \$6.25@.850; bucks \$6.25@7.25. Top for lambs for the week was \$10.85, and clipped lots closed at \$6.50@9.

(Continued from page 537). expected that an increased acreage of oats will be put in. Quite a lot of maple syrup was made this spring, selling for \$1 per gallon. Fruit buds do not look very promising. Milk brought \$1.05 per cwt. during March; butter 25c; eggs 18c.

Ohio.

the week a dime lower, with a \$7.60 top. Sheep and lambs are headed upward, with a reported sale of prime wooled lambs at \$11, a fresh high record.

Cattle were offered more freely most of the time last week, and there was an uneven market, for while the fat class of light-weight cattle sold at better prices, the heavier beeves proved bad sellers, warm weather making butter 25c; eggs 18c.

Highland Co., April 20.—Meadows in fair condition, but need rain. Farmers are getting along well with their spring work, and many are preparing the ground for corn, of which a large acreage will be planted. Wheat \$1.50; oats 59c; rye \$1.10; corn 80c; cattle better prices, the heavier beeves proved bad sellers, warm weather making





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THIS IS THE FIRST EDITION.

The first edition is sent to those who have not expressed a desire for the latest markets. The late market edition will be sent on request at any

DETROIT LIVE STOCK MARKETS.

Thursday's Market. April 22, 1915. Cattle.

Receipts none. There was a fair supply at the local yards this week, taking everything into consideration. It is hard work just now for the drover to fill a car for the yards on account of the embargo on cattle. This, however, will end this week and starting Monday next the yards will again be open for everything, and shipments for immediate slaughter may again be made. No stockers or feeders may be shipped from here back to the country for feeding purposes. Nor can milch cows be driven out. The whole state of Michigan is now free of hoofand-mouth disease and in the resticted district.

and-mouth disease and in the resticted district.

The cattle trade at the packing plants was generally 10c higher than last week. Quite a number of this class were unloaded there. They are weighed directly off the cars without feed or water, at the following prices:

Best heavy steers \$7.85; best handy weight butcher steers \$6.75@7.50; mixed steers and heifers \$6.50@7.25; handy light butchers \$6.50@6.75; light butchers \$5.50@6.25; best cows \$5.50 \$6; butcher cows \$4.75@5.25; common cows \$4.04.50; canners \$3.04; best heavy bulls \$5.50.06; bologna bulls \$4.50.05.25; stock bulls \$4.50.00 4.75.

Veal Calves.

Veal Calves.

Receipts 481. The veal calf trade was active and 50c higher than last week. A few extra fancy brought \$10.50, but the bulk of the good ones sold at from \$9.50@10, and medium and common at \$7@9.

Bishop, B. & H. sold Applebaum 3 av 117 at \$7; to Sullivan P. Co. 14 av 150 at \$9, 5 av 145 at \$10, 1 wgh 110 at \$8.50; to Newton B. Co. 5 av 150 at \$8.50; to Newton B. Co. 5 av 150 at \$8.50, 1 wgh 120 at \$10, 1 wgh 160 at \$10, 5 av 130 at \$9; to Rattkowsky 9 av 125 at \$9.75, 5 av 150 at \$9.70; to Thompson Bros. 2 av 120 at \$8, 21 av 135 at \$10; to Goose 22 av 130 at \$8.75, 17 av 135 at \$9; to Rattkowsky 7 av 135 at \$9.25; to Rattkowsky 7 av 135 at \$9.25; to Rattkowsky 125 at \$8; to Rattkowsky 11 av 135 at \$10.25, 2 av 130 at \$10.50; to Hammond; S. & Co. 13 av 140 at \$10, 19 av 125 at \$9.50, 16 av 150 at \$10; to McGuire 8 av 155 at \$10; to Sullivan P. Co. 28 av 140 at \$9.75, 49 av 150 at \$9.50.

Haley & M. sold Caise 4 av 145 at \$9, 1 wgh 100 at \$7; to Hammond, S.

Haley & M. sold Caise 4 av 145 at \$9, 1 wgh 100 at \$7; to Hammond, S. & Co. 6 av 150 at \$10; to Goose 8 av 130 at \$9.

Sheep and Lambs.

Sheep and Lambs.

Receipts 2119. The sheep and lamb trade was fairly active at steady last week's prices, the best clips bringing \$9.10@9.25. Very few wool lambs were in the receipts; a few choice brought \$10. Geo. H. Mayer, of Munith, had 370 good clips on sale that averaged 83 lbs. and they were sold by Bishop, B. & H. to the Nagle Packing Co. on Wednesday for \$9.10. Best lambs \$9.25; fair do \$8.50@9; light to common lambs \$7@8; fair to good sheep \$6@6.50; culls and common \$4@5.50. Bishop, B. & H. sold Newton B. Co.

\$6.06.50; culls and common \$4.06.50.

Bishop, B. & H. sold Newton B. Co.
102 lambs av 65 at \$8.75, 4 sheep av
140 at \$6; to Sullivan P. Co. 30 lambs
av 71 at \$7; to Fitzpatrick Bros. 38
do av 65 at \$8.50, 4 do av 95 at \$7.50,
9 sheep av 75 at \$6; to Sullivan P. Co.
10 sheep av 178 at \$6; to Sullivan P. Co.
10 sheep av 178 at \$6, 13 lambs av
60 at \$6.50, 15 sheep av 100 at \$6.50;
to Fitzpatrick B.os. 59 lambs av 70 at
\$8.70; to Nagle P. Co. 219 lambs av
70 at \$8.90, 90 do av 69 at \$8.75, 370
do av 83 at \$9.10; to Barlage 33 do av
68 at \$9; to Sullivan P. Co. 4 sheep
av 95 at \$6, 9 wool lambs av 80 at \$10;
to Barlage 33 lambs av 70 at \$9, 1
goat wgh 140 at \$4.50; to Hammond,
S. & Co. 10 lambs av 74 at \$9, 1 spg
lamb wgh 70 at \$14, 3 sheep av 150
at \$6.

Sandal, S., B. & G. sold Sullivan P.

Co. 1 lamb wgh 80 at \$9, 4 sheep av 95 at \$6, 3 spg lambs av 46 at \$11, 1 sheep wgh 100 at \$6.50.

Reason & S. sold Sullivan P. Co. 76 lambs av 65 at \$8.75, 25 do av 55 at \$7, 1 sheep wgh 130 at \$4; to Fitzpatrick Bros. 46 lambs av 65 at \$8.60. Hogs.

marsh in Eckford township, Calhoun county, Mich Liberal terms. Address, P. D. Haskell, Patent Office, Washington D. C., or Frank Wells, Eckford, Mich, Government Farmers Wanted \$^{50}\$ to \$125\$ monthly. Age 21 to 50. OZMENT 17 F. St. Louis.

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Hogs.

Receipts 6527. The hog trade on Wednesday was strong for pigs, about a thousand being bought on eastern orders at \$7.75; packers' grades brought \$7.60 @7.65 at the yards on Thursday. Chicago closed 5@10c lower and at noon packers are bidding \$7.60. Pigs for eastern orders will bring \$7.70@7.75.

Bishop, B. & H. sold Miller & Co. 900 pigs av 133 at \$7.75.

Same sold Crane & Co. 180 pigs av 135 at \$7.75.

Sundry shippers sold Sullivan P. Co. 700 hogs av 190 at \$7.60.

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All cattle over six months of age will be carefully tuberculin tested by a Veterinarian from the Bureau of Animal Industry, or by competent graduate Veterinarians and Certificates of Health approved by the Michigan State Veterinarian. Sale Catalogs will be out April 20th.

This is the buyer's opportunity to buy good healthy cattle, consigned from territory which has been free from "Foot and Mouth Disease." If interested write for Sale Catalog.

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

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Practical Science.

RURAL SANITATION.

BY FLOYD W. ROBISON.

(Continued from last week). The Farm Water Supply.

providing a sanitary water supply the location should be first taken into consideration. With the location of the well must be considered the type of soil and the general drainage slopes. All the physiological operations of digestion and assimilation of food depend upon water for their performance and in the interests of health it is highly important that this water should be pure and above suspicion as to its sanitary quality. There are few farms where it is not possible with a proper consideration of the matter to have a clean, pure,

Infectious Diseases Traceable to Water.

satisfactory water supply and when

this is secured every precaution that

can be followed should be observed to

protect it.

Without doubt much of the typhoid fever which every year is prevalent in rural communities is largely traceable to a polluted water supply and when the source of poulltion is traced it will be found usually in a defective sewage disposal on the farm. Typhoid fever and infectious diseases are preventable and their toleration is a confession of inefficiency and demonstrates a lack of aprpeciation and knowledge concerning the underlying cause. It does not seem as though one, these days, would need to be cautioned against the location of cess pools and sewage depots on ground in the proximity of wells or where natural slopes will permit drainage toof this kind which do exist and which enlightened people tolerate.

The Farmer Must Consider these Things.

The main difficulty which operates. against the installation of efficient systems of sanitation as we have been discussing it is a lack of appreciation of its economical relationship. If one could know in advance each year how many dollars he is going to lose because he does not take sanitary precautions he would not hesitate a minuts about proceeding to make such provisions. If he could realize at the beginning of the year that he is going to lose 50 per cent and sometimes more, of the young chickens which are hatched on the farm, due to his tolerance of rats, we think he would "Washing Secrets" is the title of an illustrated booklet published by Altorfer Bros'. Co., Roanoke, Ill. It contains helpful hints for the housewife taken helpful hints for the housewife cate fabrics, etc., It also fully illustrated and describes the power washers manufactured by this company in various sizes and styles suited to the needs of every housewife. Mention to the Michigan Farmer when writing to the strength of the could realize at the beginning of the year that he is going to lose before a graph of the provisions. If he could realize at the beginning of the year that he is going to lose before a graph of the provisions. If he could realize at the beginning of the year that he is going to lose before a graph of the year that he is going to lose before a graph of the year that he is going to lose before a graph of the year that he is going to lose before a graph of the year that he is going to lose the provisions. If he could realize at the beginning of the year that he is going to lose the provisions. If he could realize at the beginning to lose the power with the handling of delicate the provisions. If he could realize at the beginning of the year that he is going to lose the provisions. If he could realize at the beginning to lose the provisions are provided by the power washing. of its economical relationship. If one tolerance of rats, we think he would for it.

quently in death in his own family, due to the polluted water supply on which the family of necessity must make daily demands we think there would be no polluted wells on the farm. What is needed more than anything else is not the following out of any one system of rural sanitation or any one person's pet scheme of procedure, but the instilling into the cedure, but the instilling into the minds of the people on the farm a sense of order and system and the more vivid realization of the toll in an economic way they are paying for farm. the toleration of unsanitary conditions.

What Rural Sanitation Involves. A proper conception of an efficient

system of rural sanitation upon the farm involves therefore, a consideration of convenient and sanitary arrangements in the home; the providing of a safe and abundant water supply; the relentless warfare against mosquitoes, rats and mice; a consideration of sanitation in the housing of domestic animals, and a more careful treatment and disposal of manures upon the farm. Also a separation of the home and its immediate surroundings sufficiently from other buildings upon the farm; a collection of the rubbish and debris, and the installation of system and order, all of which, besides proving as we firmly believe, a decided measure of economy, will tend very materially toward the health and happiness of the family life upon the farm and the hundred and one things which tend to make life more worth

TEST FOR JELLING OF FRUIT JUICE.

Chemists of the Department of Agriculture recommend the following test as a simple one to determine when fruit syrup has reached the "jell point:" "Make a thin, flat stick or a small paddle, about an inch broad, and whittle this down to a straight edge. Dip the paddle or stick into the jelly mixture and remove it. Hold the end down, and if the mixture has reached the jelling point, it will be noticed that the liquid will not drip off in drops but will flake off-that is, a strip of jelly will fall off from the paddle in one mass."

At the Ontario Station, 100 pounds ward wells, and yet if one will take a of meal when fed to 40-pound pigs, trip through the country he will be proved equal to 406.9 pounds of skimsurprised at the number of conditions milk and to from 37.6 to 48.5 pounds of tankage, depending upon the grade used. The skim-milk was fed in the proportion of about one and one-half pounds to one pound of meal, the tankage, one pound to about six pounds of meal.

CATALOG NOTICES.

tolerance of rats, we think he would wage a relentless warfare against them.

If the farmer supposed that 25 per man Kodak Co., Rochester, N. Y. It cent of the market value of the milk produced upon the farm for a given period would be lost because he had not made proper provisions for a clean and sanitary production of that product, we think he would begin the warfare against "The Kodak on the Farm" is the title of a handsomely illustrated 50-page booklet published by the Eastman Kodak Co., Rochester, N. Y. It contains a large number of artistic pictures besides an interesting story telling the helpful influence of the kodak on home life. In addition, the various styles and sizes of kodaks manufactured by this company are illustrated and described.

Witte engines manufactured by the

year by taking such steps. If the witte engine manufactured by the witte engine Works, Kansas City., farmer could realize the toll he is paying due to ill health or even too fredetail in a handsome art catalog published by the manufacturers and sent to michigan farmer

Dupont Magazine, published by E. du Pont de Nemours Powder Co., Wil-mington, Del., contains information of interest with regard to the use of explosives for various purposes on the

A. J. Kirstin Co., Escanaba, Mich., send an illustrated folder describing the various models of one-man stump pullers manufactured by this com-





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erkins Wind Mill & Engine Company

Guineas for Profit.

see a change. This has come about birds and the laws prohibiting their the guinea is about the only thing that can take its place. In many ways the guinea is the nearest approach to wild game that has been as yet profitfuture may have in store in the line of pheasant and quail breeding we can-their progeny. not say.

There are two leading varieties of guinea-the Pearl and the White African. The former is more common in most parts of the country but to my mind not so profitable to keep as the latter. My reason for this statement is that the African is more docile and easily cared for upon the farm, runthe same nests. The Pearl usually steals her nest in some secluded spot In this way droppings from a few inat a distance from the house, where she will lay a large number of eggs if not disturbed. It is even necessary to The hen-hatched birds usually remain approach the nest with the utmost under the mother for some hours. In caution and the eggs should be removed with a long-handled spoon, leaving have no opportunity to pick up infecta few at all times that the bird may ed droppings. If the incubator is darknot suspect that she is being robbed. The eggs are smaller than those of the hen but they are equally as good, reason for the spread of the disease. being excellent for home use. The A practical poultryman recently told guinea lays from May to the latter part of August or later.

It is not safe to attempt to start a flock of guineas by the purchase of mature birds. They are almost sure The eggs require from 25 to 28 days to hatch. After the eggs have been length of time. setting for a week, add a few hen's eggs. The chicks will exert a good influence toward taming the young guineas. It is well to confine the young birds for the first week of their life, summer they should be thoroughly allowing them no opportunity to escape. After a period with the hen and a few chicks they usually learn the ways of their foster-mother and give little trouble. When their feath- chick shows signs of having the disers are grown to some extent, they become hardy and can take care of coop at once. themselves. It is important that the mother hen be kept free from lice and vermin, as these parasites will kill the young birds.

Young guineas should be fed every two hours for a day or two. Dry bread makes a good first feed, or the bread may be fed slightly moistened tops should be given them as long as they remain in confinement. A little fresh meat is also excellent. When they get on the range they will pick up all the insects necessary for their diet. The guinea does not scratch, so the garden without fear of damage, not each much of it anyway.

ed in delicacy by the tenderest chick- may be used for brooder purposes by en, either broiled, roasted or fried. In equipment can be removed easily so fact, the gamy flavor of the guinea dividing it with a partition for stove commends it to many as far superior room and run, which partition and to chicken. The older birds, also, are as to utilize the house either for laybetter when cooked than an old hen. ing house or for breeding stock in In the larger markets the guinea is season. much appreciated, while in the smaller markets it is becoming better known each year.

CHAS. H. CHESLEY. N. H.

WHITE DIARRHEA OF CHICKS.

White diarrhea is the disease most dreaded by chicken raisers and it is year round, the early morning feed of probably responsible for more losses grain should be scattered over a wide among the newly-hatched birds than area, thus making the hens exercise any other cause. This is especially in finding the grain. true where the incubator, rather than

the hen, is used for hatching. Experiments conducted by the Storrs Experiment Station of Connecticut, some ERETOFORE the guinea hen has time ago, demonstrated beyond a usually been considered a hob- doubt that the greater number of casby, rather than a profit produc- es are the result of infection during er. Now, however, it is not difficult to the first 24 or 48 hours of the chick's life. Of course, there are cases where through the growing scarcity of game the disease is hereditary. It should be the poultryman's care to keep his sale in many states, and the fact that flock free from such a taint; thus, breeding stock should never be kept from a flock that was badly infected as chicks. It is a question, and by many believed, if the germs do not reably produced on the farm. What the main in the system of the cured birds to be transmitted through the egg to

Granting that the disease is one early contracted or developed, as a rule, and that the incubator-hatched birds are more susceptible to it than others, let us see what preventative measures can be adopted. When the chicks begin to hatch in the machine they almost immediately come forward and pass down into the nursery ning with the hens and even laying in where they begin at once to peck at anything and everything they can see. fested chicks may spread the contagion to the whole flock in a few hours. this case they are in the dark and ened so the chicks will remain quiet for some length of time, there is no me that he has almost no trouble with the disease for the reason that his incubator is placed in a dark cellar and the chicks are kept in it at least 36 hours after hatching. If it is deemed to fly away. A better way is to set best to remove part before all are the eggs under a good motherly hen. hatched, those taken out are placed in darkened brooder for the same

Perfectly clean litter is absolutely necessary for the chicks at first. Clean brooders are another requirement. Before brooders are put away in the cleaned and disinfected. The disease germ is very tenacious of life and may remain over for the next year if extra precautions are not taken. When a ease, it should be removed from the C. H. C.

COLONY HOUSE BROODER.

What kind and size of colony house would be the most successful for about 500 chicks' capacity? I would like to use a brooder stove in it.

Lenawee Co. G. C. S.

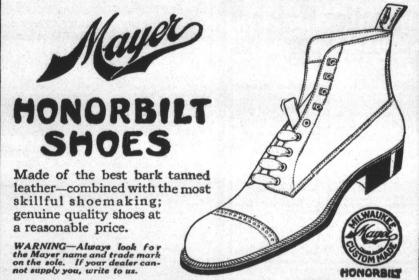
In all probability two houses 10x10 with milk. Lettuce or chopped onion feet, in which may be placed colony brooder stoves, rated for 500 chicks, and then place from 250 to 300 chicks under each hover, would be really better than to make one house for the entire 500, unless it should be a stationary house, as it is difficult to move they may be allowed the freedom of a building larger than 10x10 feet. In a stationary house and pen a 14x14, indeed they do more good than harm with colony brooder stoves and an exby eating the insects that infest the tra compartment for exercising room plants. Cracked corn is an excellent and run, would accommodate the enfood for the growing birds. They will tire 500, but the colony house which is illustrated in bulletin No. 266 of the A young guinea fowl is not exceed- Michigan Agricultural College, 14x24,

> Mich. Ag. Col. J O LINTON.

On many farms a good egg yield is not possible because the hens in the flock have outlived their usefulness. All hens over two years old should be fattened and sent to market.

If the hens are allowed to range the

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weight 5 to 9½ lbs. eggs 15 for \$1.50; P. R. eggs \$7 per 100.
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We would say to all who buy it that it does not contain a particle of poisonous substance and therefore no harm can result from its external use. Persistent, thorough use will cure many old or chronic ailments and it can be used on any case that requires an outward application with perfect safety.

Perfectly Safe and Reliable Remedy for Sore Throat Chest Cold Backache Neuralgia Sprains Strains Lumbago **Diphtheria**

Sore Lungs

Rheumatism

and

all Stiff Joints REMOVES THE SORENESS--STRENGTHENS MUSCLES Cornhill, Tex.—"One bottle Caustic Balsam did my rheumatism more good than \$120,00 paid in doctor shills."

OTTO A. BEYER.
Price \$1.50 per bottle. Sold by druggists, or sent by us express prepaid. Write for Booklet R.
The LAWRENCE-WILLIAMS COMPANY, Cleveland, O.

MORE MONE For Your Hogs

Healthy Hogs fatten more readily, bringing you quicker, bigger profits. The most economical, easy way to keep your Hogs healthy is to use

Meyer's Hog Lubricator
Latest and best way to oil Hogs. New idea. No Valves, Springs, Wheels or Gears. Nothing to get out of order. Most simple, durable and efficient device of the kind. New system, prevents oil waste. Helps to cure and prevent Scurvy, Lice, Nits, Mange and other Vermincaused Skin Diseases. Also Cholera, Hoof and Mouth Disease. Effective for Worms because Hogs like to eat Meyer's Antiseptic-Disinfectant Hog Oil.

Price low. Write at

Price low. Write at once for particulars of 30-Day Free Trial Offer, and our \$10,000 Guarantee Bond. Agents Wanted **Meyer Corporation** 136 Main Street Morton, III.



We have sixty head of imported Belgian and Percheron stallions and mares, from weanlings up. We are also offering a car weanlings up. We are also offering a car lot of big drafty grade brood mares all in foal, weighing 1600 to 1800 pounds.

PERCHERONS—Imposant, one of the heaviest horses in state, at head of stud. Brood Mares as good, young stock for sale. CHAS. OSGOOD & SONS, Mendon, Michigan FOR SALE—Registered Percheron Stallion Mares and Fillies at reasonable prices. Inspection invited. F. L. KING & SON. Charlotte. Mich.

Clydesdale Stallion and Mares at bargain some Ayrshire bull calves fit for service. Terms to suit. FINDLAY BROS., Fairgrove, Michigan. FOR SALE-12 Reg. PERCHERON MARES, sound and right in every way. Weight about 1,600 bs. M. A. BRAY, Oakemos, Ingham Co., Mich,

Registered Clydesdale Stallions For Sale. F. A. PETZ, CAPAC, MICHIGAN.

Registered Percherons.
Brood Mares, fillies and young stallions, Priced to Brood Mares, fillies and young stallions, Priced to sell. Inspection invited.
HILL CREST FARM, Eaton Rapids, Michigan.

JACKS AND MULES ules and get rich. 200 head fine large
Jacks, Jennys and mules 14 to
17 hands high. Large registered dack san dDraftStallions,
cheap now. Will trade for
sheep, cattle or horses. Write
for prices today. Stock guaranteed. Address

Krekler's Jack Farm, West Elkton, O.

Pigeon Pony Farm—Reg. Shetland Ponies, mostly stock for sale. Dr. W. T. Morrison, Pigeon. Mich. Shetland Ponies—Closing out at low prices on account of selling my farm. Regis tered stock, J. M. BEDDOW, Birmingham, Mich

CIATION OF FARMERS' CLUBS.

President—R. J. Robb, Mason. Vice-president—C. J. Reed, Spring

Secretary and Treasurer—Mrs. J. S. Brown, Howell.
Directors—Alfred Allen, Mason; Joseph Harmon, Battle Creek; C. B. Scully, Almont; C. T. Hamline, Alma; W. K. Crafts, Grass Lake; Edward Burke, St. Johns. St. Johns.

Address all communications relative to the organization of new Clu Mrs. J. S. Brown, Howell, Mich.

NAMING THE FARM.

A review of the reports of local Clubs which have been published under the head of "Club Discussions" in this department will show that in a very considerable number of Club communities the farm homes of the members are designated by a name, the name selected being quite generally expressive of some characteristic of the farm. As an example in point, we are publishing herewith two illustrations reporduced from scenes taken at "Lone Elm Farm," the home of Mr. and Mrs. C. P. Johnson, of Lapeer county, Mich. Mrs. Johnson will be remembered by every reader of this department for her years of devoted work as Secretary of the Michigan this department will show that in a work as Secretary of the Michigan State Association of Farmers' Clubs. The smaller cut shows the great elm tree which was the inspiration back of the name which Mr. and Mrs. Johnson have given their farm.

Very many other examples of a similar nature might be cited, but the object of this article is to emphasize the value of the idea of giving the farm a designation other than the name of the owner. This is, we believe, more common in Farmers' Club communities than in any other in the state. The question of urging the members planting.
Reading, "Woman's Community Service Work."
with profit by every local Club in the state in which this practice is now not a custom.

CLUB DISCUSSIONS.

Planting.
Reading, "Woman's Community Service Work."

"Is the telephone a luxury or a necessity?" By a brother. By a sister.
"What are the best methods of eliminating the fly?" General discussion.
Spraying and thinning the orchard.
Music.
Rhyberh to give their farm homes a significant planting.

Discuss County Expert.—At the April meeting of the Riverside Farmers' Club, the roll call found nearly every member present, as well as a goodly number of invited guests. Mr. and Mrs. Sherman were voted members of the Club. After the dinner was over, meeting was called to order and the general program was taken up. "Prison Extension Work and Prison Reform," was a topic assigned to Mr. S. Miner. Mr. Miner gave us a very good illustration of prison reform. He said so many times the worst criminal ought to be dealt with mercifully. The crime committed being a great many crime committed being a great many times due to environment. Mr. Fred Crowe's topic, "The Farmer as a Plant Breeder," gave us some very good thoughts along that line. Next the matter of county expert was brought up, with a very lively discussion. Bert Took being present, was called upon. He said he thought if it was good for other counties it would be food for Shiawassee. He said he thought they would be a great benefit to the farmers, providing we got the right kind of a man. A good many passed their



The Lone Elm, for which the Farm was Named.

help lighten a woman's work. The subject provoked a lengthy discussion. Club adjourned to meet with Mr. and Mrs. Alfred Lyons, May 13.—Mrs. E. M. Frost, Cor. Sec.

Grange.

MAY PROGRAMS.

Music. Value of cultivating a crop before

Rhubarb refreshments. Prepared by the young ladies.

THE GRANGE IN SOCIAL SERVICE.

(Continued from last week) Almost every community has at least one man who refuses to be limited to a unit smaller than the nation at large, and perhaps his vision takes in the whole world. Now his information may be sadly distorted, and his reasoning may lead him to incorrect conclusions, but he will think and talk, yes, and largely live in that unit.

But after all, the most of us are concerned principally about our own comfort and happiness, and that of our immediate acquaintances. We love the simple life better than we often stop to think, and there is so much more good in us, and hope for us, than some people say there is.

Farmers' Clubs

opinion. Some thought they would like to see it tried out, and some didn't know. The next meeting will be held at the home of Mr. and Mrs. Fred Woods, in Owosso, for an afternoon meeting in May.—Reporter.

A Sugar Dinner.—The Ray Farmers' Club held their annual sugar dinner must not do either but the time has must not do either but the time has must not do either, but the time has come to set everybody to work in the Grange. "Social Service" gives us the opportunity. Shall we be wise and "not bury our talent in the earth?"

As we have stated in this connection before, the Worthy Master has asked that we emphasize some line of "Social Service" in each Grange.

Some of the suggestions will require but little effort. Thus the placing of watering troughs at convenient points on the highway will not incur much expense, and will contribute much to the advantage of the neighborhood.

The placing of sign-boards giving the distances to different points, in convenient locations, will help many a traveler, and so is a work worth doing. To erect danger signals at dangerous curves and crossings, may be to save someone's life. "What will a man give in exchange for his life?"

There are many other opportunities for service that we have not time to consider now, but patrons, is it not possible for us to do some of these things this year?

A watering trough where it is needed, a danger signal, a sign-board, it will not cost much and will not consume much time. The people outside will see that your Grange is alive, and some of them will come in and help

If these things are not needed in your community, there is surely some other good work for your Grange. Read that list of ten lines of "Community Service" again, and ask your Grange to get busy.

"The World's Work!" Sometimes when I try to think of it all, and no State Lecturer's Suggestions for First man has yet seen more than a small part of it, the greatness of it overpart of it, the greatness of it overwhelms me, and I feel like crying out to the people in every Grange, in the words of "The Great Master, "Lift up your eyes and look on the fields for they are white already for the harvest. The harvest truly is great, but the laborers are few."

If every Grange would but get into the field and gather the harvest of "Social Service" that just now awaits our best and most intelligent effort, what a record we might bring to the next state meeting.

W. F. TAYLOR.

AMONG THE LIVE GRANGES.

One of the Largest Granges ever organized in this region was completed on Friday evening, April 16, when State Deputy C. F. Kiefer put the 63 charter members of Deerfield Grange No. 1596 into the harness and set them to work. This husky youngster meets, for the present, in the Wilson schoolhouse in the eastern part of Deerfield township, Mecosta county. They are exceptionally well officered and we predict for them a bright future, full of profit to themselves, elevating influence in their vicinity and expanding usefulness in the Order at large. Success to you, No. 1596!—C. F. K.

than some people say there is.

This is why the address of Brother
Charles N. Gardner at the last meetThis is why the address of Brother
Charles N. Gardner at the last meetThis is why the address of Brother
This is why the address of thew and ritualistic dedicated their fine
This is why the address of Brother
This is why the address of thew and ritualistic dedicated their fine
This is why the address out of town, on
Thursday, April 8, by a public diner
This is with St. Emma Grange
Although one of the youngest in the
County has mountent to their loyalty, persistency and self-sacrificing
devotion as guide to other Granges,
with a challenge to go and do likewith State Master John C. Ketcham as
the principal speaker. Emma Grange
although one of the youngest in the
county, has made wonderful progress
and the new home, just completed,
with State Master John C. Ketcham as
the p dedication.

Eaton County has more exclusive Grange halls than any other county in the state.



"Lone Elm Farm," Home of Mr. and Mrs. C. P. Johnson, of Lapeer County.

BREEDERS' DIRECTORY.

CATTLE.

Aberdeen-Angus Bulls. We are offering 12 extra good bulls, among them prize-winners at the Michigan State Fair. 1914. Some of them by Black Monarch 3rd, Grand Champion Bull of the State 1914. Others by the Great Sir Blackbird, sire of prize-winners, ages from 9 to 20 months old. Prices from \$100 to \$250 each, Come and look them over; they will please you. U. L. Clark, Hunters Oreek, Mich. Sidney Smith, Manager.

ABERDEEN-ANGUS

HERD FOUNDED IN 1900,
Strains represented consist of Trojan Ericas, Blackbirds and Prides, only, Black Quality Ito, a bull of
rare individuality and merit, heads the herd.
WOODCOTE STOCK FARM, Ionia, Mich.

FOR SALE—Two registered yearling Aberdeen Angu-bulls. Good individuals and well bred Marshall Kelly, Long Wood Farm, B. No. 10, Charlotte, Mich

AYRSHIRES—One of the foremost dairy breeds The for sale. White Leghorn cockerels; Duroc Jersey swine. Michigan School for the Deaf, Flint, Michigan.

Four Registered Aberdeen Angus Bulls, from tento seventeen months old. Prices reasonable. GEO. HATHAWAY & SON, Ovid, Michigan.

THE VILLAGE FARM, Grass Lake, Michigan, GUERNSEY CATTLE.

MILO D. CAMPBELL. CHAS. J. ANGEVINE

BEACH FARM GUERNSEYS

A Dairy Show Every Day. 120 Head of Dairy Stock. Milking done by making. Advance Register work; 10 head on yearly test. Herd bulls of high quality. One with seven dams in 4 generations average 707 lbs. butter fat. Guerneey products are always in demand. All the whole milk we can spare brings for per qt. in bulk at the farm. Pure bred bulls from A. R. dams for sale. Come and see them, we will be glad to entertain you, or write for descriptions.

CAMPBELL & ANGEVINE, Coldwater, Mich.

Fairview Dairy

GUERNSEY

FOR SALE:—Six registered bulls, one year old. and one registered bull, two years old.

one registered bull, two years old.

A. R. ANCESTORS

HerdfBull "YEKSA"—14327, weight 1750 lbs. and a fine individual. Dam—ULSU—20311. A. R. 814.

Herd subercull tested and all stock sold guaranteed to be sound and as represented.

BYERS & BARNS BROS., Coldwater, Michigan.

For Sale, Reg. Guernsey Bulls, Berkshire hogs, sow JOHN EBELS, R. 10, Holland, Michigan.

THREE REGISTERED GUERNSEY BULL CALVES. From 7 to 9 mo. old, at \$40 and \$50, Enquire, F. W. RUEHS, Caledonia, Michigan.

For Sale Registered GUERNSEY COWS, HEIFERS AND BULLS of choice breeding. H. W. WIGMAN, Lansing, Mich.

Reg. Guernsey Bull Calf, 6 mos. old A.B. ancestors. Eugene Wilcox, R. 4, Hartford, Mich.

REGISTERED GUERNSEY BULL CALVES for sale cheap at Windermore Farm, Watervilet, Mich. May Rose breeding, Address, J. K. BLATCHFORD, Auditorium Tower, Chicago, Ill.

HEREFORD: Three bull calves and one two year old.
ALLEN BROS., Paw Paw, Michigan.

Do You Want A Bull? Ready For Service.

From a grand daughter of The King of the Pontiacs. Sired by a bull that is more than a half brother to the Champion Holstein Cow of the World, and whose dam is a 30 lb. 6½ \$ fat daughter of Pontiac Aggie Korndyke who has more 30 lb, daughters than any other living bull. If you do write for pedigree.

EDWIN S. LEWIS, Marshall, Mich. Three Reg. Holstein Friesian Bulls at \$100 Each. Two from 21-lb, dams. Also bull calves.

DEWEY C. PIERSON, Hadley, Michigan.

Holstein-Friesian Bull Calves Ready For Service. From \$40 up. B. B. REAVEY, Akron. Michigan. ESPANORE FARM,

LANSING, MICHIGAN. Home of the great Holstein Bull "PLEDGE SPOF-FORD CALAMITY PAUL" with 33 A. R.O. daughters, including a 5-year-old with a 35-pound record. Others from 20 to 32 pounds.

FOR SALE—A Bull Calf sired by this Great Bull.

CHASE S. OSBORN, ADAM E. FERGUSON, Owners.

FOR SALE—Registered Holstein bulls ready for service. Heiters and cows due to freshen soon at reasonable prices. CHARLES T. COOK, Box 438, Fowlerville, Mtch. Registered Holstein Cattle—Bull Calves for sale, out of A. R. O, cows. Also 4-year-old herd bull, out of 27% lbs. dam. FLOYD F. JONES, R. No. 3, Oak Grove, Mich.

FOR SALE—Three young, Reg. Holstein cows, are safe in calf. No culls, Price \$175 each. Also 3 heifer calves \$125 each, 2 buil calves, \$50 each, choice breeding. PINE HILL FARM, R. 6, Lakeview, Mich.

Bull Caff.—3 sisters from 30.08 to 34.31 lbs. Sire's sire brother to Pontiao Korndyks. Dam 22.92 lb. her dam has 2 30-lb. sisters. M. L. McLAULIN, Redford, Mich.

HOLSTEIN BULL CALF, 5 mo. old, good individual, well grown from A, R, O, dam. Sire's dam has 7 day record 30,78 lbs, butter and a large yearly record.

W. B. READER, Howell, Michigan.

"Top-Notch" Holsteins. Extra large fine young bull, % white, born Oct. 4, 1913.
Dam has official record of 29,40 lbs. butter in 7 days, 117,50 lbs. in 30 days. Sire's dam is a 22,64 lb, 4 yr, old daughter of a 30,56 lb. cow.
McPHERSON FARMS CO., Howell, Michigan.

Reg. Holstein Bull calves and Herd Bull. Can supply all wants in Reg. Chester White swine. Bay B. Parham, Bronson, Mich

HENRY FORD FARMS JERSEY SALE

We offer PUBLIC AUCTION, on SATURDAY, MAY 15, 1915,

60 Head of Jerseys—mostly females—a portion of these being pure-bred stock descendents of the famous Royal Majesty AJCC-79313, a small number of imported stock and the balance being grades of good quality ranging in age from one month to three years. Our two-year-old stock are very good and will be worth looking over. Detroit, Ann Arbor, Jackson D. U. R. passes farm. Half hour service. Get off at Reckner Road, one and a half miles east and one mile north of Dearborn village. Sale starts at 10 o'clock, sharp. Auctioneer—Smith.

Livingston County Holstein Breeder's Sale Co. Will Sell 90 Head of Registered Holsteins at the Fair Grounds, on Wednesday, May 19, 1915.

Our consignments will include a granddaughter of the \$50,000 bull, 3 cows that are sisters to cows with records of 30, 31 and 33 lbs., a daughter of a % brother to the \$50,000 bull and A. R. O. cows also as 3-yr-old son of Friend Hengerveld DeKol Butter Boy.

Our reference sires include, a son of the World's record Junior 4-yr-old for 7 and 30 days, a son and two grandsons of pontiac Korndyke, a son of the 50,000 bull, a brother to the sire of Tilly Alcastra who holds the world's milk record for one year, and sons of 30 and 31 lb. cows. Catalog May 10th.

F. J. FISHBECK, Secretary, Howell, Mich. Perry and Mack, Auctioneers.

HOLSTEINS FOR SALE

5 Good Bulls, ready for service. 10 Very Choice Bull Calves.

2 Two-year-old Heifers, bred.
1 Six-year-old grand-daughter of King Segis, due in December.

L. E. CONNELL, Fayette, Ohio.

A "BARGAIN" "ONLY" \$50 Registered Holstein Bull Calf. Best blood and best A. O. backing on both sides. % white, Perfect and hand some individual. Rougement Farms, Detroit, Mich.

High Class HOLSTEINS here s besided by Smithdele Alcartra Pontinc, whose dam s the famous Alcartra Polkadot. Have few young bulle ind females for sale at reasonable prices. Will buy few helfers about 15 months, not bred, Farm 3 mile from court house. SETH B. RUBERT, Howell, Mich.

Bigelow's Holstein Farms

Breedsville, Michigan.

Highest Class Registered Stock For Sale A Great Opportunity A \$300 HOLSTEIN calf for \$100, Write for breeding. Also some extra grade heifers and bull calves, HILLCREST FARM, Kalamazoo, Michigan.

FOR SALE Registered Holstein Bulls ready for service, and bull calves, also females. FREEMAN J. FISHBECK. Howell, Michigan.

Registered Holstein Bull Calf, whose sire is full brother to Lady Tobe DeKol, 3½ yr. 36.59, G. D. 10 yr. 31.66, ELMER E. SMITH, Redford, Michigan.

HOLSTEIN BULL CALVES—Don't buy until you write Michigan Long Beach Farm, Augusta, Kalamazoo Co., Mich.

I offer for sale three bull calves sired by Colantha Johanna Creamelle Lad, extra fine ones, and will accept good notes due in one year in payment. Here is your opportunity. Geo. D. Clarke, Vassar, Mich. Holstein-Friesian Breeder The best families of the breed represented. D. D. AITKEN. Flint, Michigan.

HOBART W. FAY, Mason, Michigan. Holstein Friessan cattle. Nothing for sale at present

MICHIGAN HOME AND TRAINING SCHOOL LAPEER, MICHIGAN
Breeder of High Grade Holstein Cattle. Lists and
prices upon application.

Maple Lane Register of Merit Jersey Herd. Tuber-la culin tested by U. S. Government. For sale bull calves and heifer calves from E. of M. dams and grand dams, and Hood Farm Sire. TRVIN FOX. Allegan, Michigan.

The Wildwood Jersey Herd. Registered Jersey Cattle Tof Quality. Majesty's Wonder 90717 one of the best sons of Royal Majesty heads the Herd. We offer for sale a bull two years old and one 10 months old, both by Majesty's Wonder and from dams that are capable of Register of Merit requirements. Write for description and price They are right. Come and see. Alvin Balden, Capac, Mich

Lillie Farmstead Jersey Cattle. Bull calves from R. of M. Cows, also helfer calves and several bred helfers for sale. Colon C. Lillie, Coopersville, Mich.

JERSEYS -For list of stock for write. MRS. P. H. WALKER, R. R. No. 8, Kalamazoo, Mich. If a breeder and a member of M. J. 0. 0. send list of stock for sale to the above.

FISHERTON FARM JERSEYS—Some fine grandsons of Hood Farm Pogis' 9th., from Register of Merit dams. FISHERTON FARM, Pontiac, Michigan.

Jerseys. Bulls ready for service, extra quality sired by Jacoba's Fairy Emanon, No, 107111, from high producing dams. SMITH & PARKER, Howell, Mich.

JERSEYS-THE REGISTER OF MERIT KIND. BROOKWATER FARM, R. No. 7, Ann Arbor, Mich. Jersey Buils for Sale from high-producing dams, with testing Asso. records, also on semi-official test. C. B. Wehner, R. 6, Allegan, Mich.

MILKING SHORTHORNS—Young bulls sired by a Grand May & Otis bull for sale, DAVIDSON & HALL, Teoumseh, Michigan. Dairy Bred Shertherns of best Bates Strains. No J. B. HUMMEL, Mason, Michigan.

FOB SALE—Shorthorn Bulls, red and roans, by sons of Avondale and Victor Linwood, both International winners. John Schmidt, R. 2, Reed City, Mich.

BIDWELL SHORTHORNS Registered Bulls For Sale.

Big and strong in prime condition for immediate use. 9 to 24 months old. Priced for quick sale, Albion Stamp 352371 by Ch. Shenstone Albion, in service. Write or see them on farm at Lake Shore & Michigan Bouthern Depot, or five minute's walk from Detroit, Toledo & Ironton Depot.

BIDWELL STOCK FARM
BOX D. Tecumseh, Michigan.

Shorthorns For Sale—Young bulls sired by Bright W. B. McQUILLAN, Howell or Chilson, Michigan.

Shorthorns Dairy or beef bred. Breeding stock all sages for sale at farmers prices. C. W. Crum. Secy. Cent. Mich. Shorthorn Breeders' Assn. McBride, Mich.

SHEEP.



Registered Oxford Down Sheep wants.

M. F. GANSSLEY, Lennon, Michigan,

HOOS.

Durocs & Victorias —Grand bunch of Gilts due March and Aprill of Superba, Defender, Much Col., Orions and others A few young boars. M. T. STORY, Lowell, Mich

BERKSHIRES Choice spring boars and gilts priced to move quick. Farmer stock. ELMHURST STOCK FARM, Almont, Mich

Berkshire Hogs—Choice gilts bred to farrow in March and April. Also a number of Barred Plymouth Rock Cockerels. Chase's Stock Farm, R.No.1, Marlette, Mich.

Reyalton Bred Berkshires No more bred sows. Fine old. Young sows and boars born last October. Price right, D. F. VALENTINE, Supt., Temperance. Mich.

HAMPSHIRE Swine-Breeding stock of all age from most popular strains. Write for breeding. Inspection invited. Floyd Myers, R. 9, Decatur, Ind

WEST WINDS HAMPSHIRE SWINE. Booking orders for sow pigs immediate shipment. No males to offer E. P. Hammond, owner, N. A. Wiser, manager, Pontiac, Mich. Chester Whites Sept. farrow either sex. Also 10 months Holstein Bull. All registered. F. W. ALEXANDER, Vassar, Mtch.

O. I. C. Fall Pigs Oholoe gilts bred to one of the best boars in the State.
C. J. THOMPSON, Rockford, Michigan.

Big Type, O.I.C's and Chester White Swine. 400 fall pigs either sex, pecial prices for the next 30 days, also bred gilts and service males and we are booking orders for spring pig, all our stook is good enough that I will ship C. O. D. and reg, free in the O. I. O. or Chester White Asso. We won, more prizes than all other breeders put together, at Ill., and Wis. State Fairs. Write for Show record.

ROLLING VIEW STOCK FARM Cass City,

O. I. C. Spring boars all sold. We have some fine fall pigs ready to chip.

JOHN BERNEB & SON, Grand Ledge, Michigan.

O. I. C. Registered Pigs Write for photo and prices. J. CARL JEWETT, Mason, Michigan. O. I. C's Servicable boars. Gilts bred for G. P. ANDREWS, Dansville, Michigan.

O. 1. C -Servicable boars of Sept. farrow, also farrow. H. W. MANN. Dansville. Michigan,

0.1. C's—One serviceable fall boar and a few bred gilts, also March and April pigs, pairs not akin. Reg. free and shipped C. O. D. J. W. Howell, Ovid, Mich.

O. I. C. SWINE—Write for new price on hand service boars, also other sex of Aug. farrow. I am also booking orders for March and April Pigs. A. J. GORDEN, R. No. 2, Dorr. Michigan.

O. I. C's-Spring pigs, pairs and trios, not akin, from state fair winners, avondale STOCK FARM, Wayne, Mich.

O. I. C. -25 sows bred for Spring farrow. 75 Fall pigs, large and growthy. Write your wants, GLENWOOD STOOK FARM, Zeeland, Michigan.

O. I. C. Choice Sept. pigs, either sex. Gllt due June 21, boar weighing 225 lbs. \$25, will take orders for March. April & May pigs, not skin. A. V. HATT, Grass Lake, Michigan.

0.1. C's—Two servicable boars, sows coming two yr., old, bred for March farrow, fall pigs, all stock registered. S. J. HOWELL, St. Johns, Mich.

O. 1. C³s—STRICTLY BIG TYPE. Have a few Gitts left bred for early May farrow. Also a good yearling sow bred for early May farrow. Will sell cheap to make room for my spring pigs. Sept. pigs either sex, good ones. Am booking orders for Spring pigs. Oan furnish in pairs or tries, not or my spring pigs, Am booking orders akin. Sired by some of the largest Boars of the breed. NEWMAN'S STOCK FARM R. No. 1, Marlette, Mich.

O. 1. C's—Two good boars 12 months old, good spring boars. ½ mile west of depot. OTTO B. SCHULZE, Nashville, Michigan,

DUROC JERSEYS-A few fall boars and 12 carey U. EDMONDS, Hastings. Michigan. Duroc Jerseys A few choice gilts bred for April and Mayfarrow. Fall pigs either sex. S. O. STAHLMA, OHERBY LAWN FARM, Shepherd, Michigan.

DUROC JERSEYS.

From Prize-Winning Stock. Write, or better still, come

Brookwater Farm, Ann Arbor, Mich., R.F.D.7.

SHORTHORNS: 6 CHOICE YOUNG BULLS FOR SALE DUROC JERSEYS—Some good and open gilts. W. O. TAYLOR, Milan, Michigan.

SOW WEIGHED 932 LBS. AT 23 MONTHS OLD IONIA GIRL

I have started more breeders on the road to success than any man living. I have the largest and finest herd in the U.S. Every one an early developer, ready for the market at six months old. I want to place one hog in each community to advertise my herd. Write for my plan "How to Make Money from Hogs." G. S. BENJAMIN, E.Ne. 10 Portland, Mich.

HAVE ONE GOOD GILT, weight 175 lbs., farrow April 10th, \$25. One 200 lb. gilt farrow last of April, price \$35. A few spring and fall boars, price \$20 to \$30. H. G. KEESLER. Cassopolis, Michigan.

Capitol Herd Durco Jersey Swine. Established 1888. Young boars and bred sows for sale. I pay the express. J. H. BANGHART, Lansing, Michigan.

DUROC JERSEYS-A few bred gilts, fall males ready for service, S. C. W. Leghorn and Buff Rock eggs for sale.

J. McNICOLL, Station A, R. 4, Bay City, Michigan.

STRICTLY B.T. Polands—Absolutely none larger or better. My herd represents best herds in U. B. Spring & fall farrow gigs at bargain prices. Satisfac-tion guaranteed. F. D. Kruger, Ravenna, Mich. F. A. LAMB & SON has three registered Duroo F. Jersey brood sows that farrowed 47 pigs, one farrowed 18 pigs. These pigs are the big boned kind and are for sale at \$5 and \$5 each. Pedigrees furnished. Also some fine gilts both open and bred at \$15 and \$30 each. Also one registered bull calf from a registered Jersey oow. Write your wants to F. A. LAMB & SON. Oassopolis, Mich.

Duroc Jerseys: A few choice boars ready for service, Cliff Middleton, Idlewild Farm , R. F. D. No. 3, Clayton, Mich.

Duroc Jersey March pigs either sex, sired by a son and Chicago Show in 1912. E. H. Morris, Monroe, Mich.

Duroc Jerseys, Big boned service boars; gilts for June farrow, bred to son of Volunteer, Gd. Champ, at 1912 International. F. J. Drodt, R. No. 1, Morroe, Mich.

POLAND CHINAS of the big type. Boars for spring farrow. A. A. Wood & Son, Saline, Mich.

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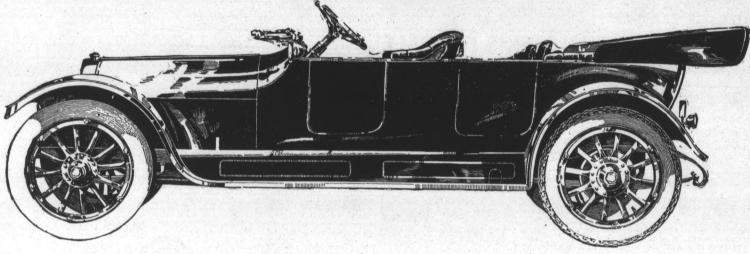
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