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# MICH GAN MEAN MER



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DETROIT MICHIGAN SATURDAY MAY 30, 1914.

Nº 22.

### FARM NOTES.

### Fertilizers and Soil Fertility.

I have been a reader of your valuable paper for three years, and get a great deal of good out of it. Last fall I sowed some commercial fertilizer with my wheat and must say it looks your good this spring. I also used very good this spring. I also used fertilizer on my oats and intend to on my corn and potatoes, but a great many of my neighbors tell me I will have to continue its use and will finally ruin my land or get it so poor that it will not grow anything at all. I practice the following rotation; I plow clover and timothy sod for corn, disc up the ground the following spring for oats and in the fall plow down all the manure I can get and sow to wheat, or top-dress with the manure and seed to clover with just a little timothy, leaving it to hay and grass for two years. Each time I grass for two years. Each time I sow a little fertilizer, say about 150 lbs. per acre for wheat and oats, and about 90 lbs. per acre for corn. I contend that this system will build up my land. Am I right or wrong?

Allegan Co. J. S. C. S.

There is nothing whatever in the theory that commercial fertilizers injure the prdouctive power of the land where they are intelligently used. It will be found that in practically every case where that theory is advanced by a farmer it is by one who has had no personal experience in the use of fertilizers or who has made no study of the question and has used them unintelligently, if at all. It will also be found that the most successful farmers in a community are the ones who use commercial fertilizers most liberally. As an illustration, the writer only yesterday called on one of the most successful farmers of Shiawassee county, who has used fertilizers for the past 25 years and by this high state of fertility that he gets much above the average crop yields in his community. His land would produce better than similar land out the use of further supplemetary fertilization, but it will produce more profitably with it, and this is the reason that he continues to use commermust to grow the same kind of crops that his neighbors produce, and the chance of surviving a hard winter un-township, also, to construct these to the crop. same is true of every farmer who uses fertilizers in an intelligent manner.

Whether the crop rotation practiced by the inquirer, with the fertilization described, will permanently maintain the fertility of his soil, will depend somewhat upon his general plan of farming, as well as the nature of his soil. The plan would, in the writer's opinion, be materially improved by applying the manure to the sod ground to be plowed for corn or potatoes, since by this plan the manure could be gotten onto the land with less delay after it is made and insure the better conservation of this source of plant food. With this change in method and with sufficient manure to cover the sod ground plowed each year, a light supplementary fertilization with commercial fertilizer, such as is noted in this inquiry, should serve to maintain the land in its present state of fertility and perhaps gradually improve its crop producing gradually improve its crop producing power. Otherwise it would be better Mr. J. A. Kaiser relating to the stone to shorten the rotation a year and roads built in Fayette township, Hillsplow down the clover after cutting dale county, prompts me to ask for for the season's planting. If liming one year, to insure the addition of sufficient vegetable matter to keep the from a steam roller? What is the cost of the preparation of the seed from a steam roller? What is the cost

Where fertilizer fails to give profitthat the soil is deficient in organic matter, and the first step toward its remedy this condition.

this way. I. C.

It will not, in the writer's opinion, ed, thus saving the rental charge. pay to compost this straw as a prep-

aration for its application to the soil mile, it is not practicable to give acto plow down. The most profitable curate figures at this time, owing to way to use straw is as an absorbent the fact that the crusher is comparin stables and yards to prevent the atively new, this being the fourth seawaste of liquid fertilizers, but where son it has been in use. It is possible, there is an excess of straw available however, to give a fairly accurate esover the amount which can be profit-timate, based on use for a series of ably used in this way, it can be spread years. The highway commissioner of on the surface, preferably on sod the township under whose supervision ground, midsummer, the straw will form a destraw when so handled.

Midsummer Seeding of Alfalfa.

I would like to have the opinion of some of your readers in regard to a field I have. It is a ridge. Clay and sand, and has been run quite badly. It is in rye now. Would it be advisin rye now. Would it be a to turn down the rye after planting and give it about six loads of manure per acre and work it in good and sow to alfalfa? How late in the season would it be advisable to do this work?

Gratiot Co. A. P. The plan as suggested for seeding this land to alfalfa would be an excellent one, and should give good results. If, however, the manure is spread on the land after plowing and worked into the surface, it would be better to keep the land cultivated for some weeks to kill the weeds before the alfalfa is sown. It would, in the writer's opinion. be a better plan to spread the manure on the rye and plow same down, then fit the land and sow the alfalfa as soon as a good seed bed could be prepared and the should be remembered that alfalfa repaired in this way. does best on a good firm seed bed, means has, without the aid of live but if it is sown any time before the ship to go in debt in order to con- stances irrigation is unnecessary, but stock, maintained his farm in such a middle of July, it will make such a rapid root development that it will the hands of the voters, and should science of dry-farming must be put make as good use of the manure if plowed under as suggested, as would they have the power to cut down the duction. be the case if it were spread on the which has not been so fertilized with- surface and worked into the soil. Al-policy of the township, however, to late as the last of July, but it is pre- work should preed slowly. Road im- cessful farming in Michigan and culferable to sow it not later than July provement is bound to come, every- tivation is practiced more, we think 15, in order that it may make a good cial fertilizers, and not because he top growth with which to go into the struct the best and most permanent view than with the elimination of winter, so it will stand a far better

### der these conditions. Rape Pasture for Small Pigs.

In a recent issue of the Michigan Farmer there was a long article on rape pasture for hogs. Now some people claim they have found that rape pasture is liable to be injurious to white pigs. Can you give me any information on this subject?

Osceola Co.

E. L. J.

Where small pigs, and especially white pigs as suggested in this inquiry, are turned into a growthy pasture and allowed to run through same when wet with dew, it will sometimes have an irritating effect upon the skin. However, if the pigs are turned into the pasture before it has made a large growth, this will not occur to any extent, and if the pasture is not overstocked at this time, it will not

### MORE ABOUT STONE ROADS.

In regard to the cost of up-keep per tilizers."

with excellent results. If most of the stone roads have been somewhere between \$150 and \$200 be close to the exact cost.

practice to roll down the newly built to growing crops. road and also that which has been constructed on previous days. It is climate so that we have come to dethe opinion of those competent to pend in farming operations almost judge, that these roads cannot be roll- entirely upon rain arriving in proper ed too much. The more rolling the season, and too little have cultural better. The heavy roller has been methods been followed such as are found to work excellent results in the necessary in the states of the middle repair of roads, in taking out ruts, west where rainfall in season cannot etc., and is used for this purpose, each be depended upon. spring. A mile of state reward gravel weather conditions were suitable. It road built some years ago is easily this state, irrigation is not practiced

mileage to be constructed. It is the roads first, where most needed, regardless of whether the bad spot be in a main road or a crossroad. Long verted into hard, smooth, stone roads. So far, the cost per mile, exclusive of wear on machinery, has been \$12.00. This allows, of course, for the payment of \$1,000 reward money, by the state

J. A. KAISER. Hillsdale Co.

### WHEN TO APPLY LIME.

"The best time to apply lime," says M. A. Batchell, of the College of Agriculture, Ohio State University, "is during the preparation of the seed bed for corn. The thorough cultivation of this crop mixes the lime with be materially injured by such pastur- the upper soil. By the time clover is sown on that soil, the lime has changed it from a sour to a sweet condition. The time for applying lime, however, admits of wide variation. ally a busy spring compels the farmer to spend his time in getting ready for the season's planting. If liming time previous to commercial fer- uted upon the earth.

# Practical Science.

### THE CONSERVATION OF SOIL MOISTURE.

BY FLOYD W. ROBISON.

With the abundance of rainfall spread thinly on sod after having in built, estimates this up-keep to be which we have in this state at certain periods of the year, it seems indeed sirable mulch and stimulate growth of per mile. The commissioner is at strange that there should at any pethe grass, and there will be more veg-present, probably best fitted to make riod of the year be a lack in available etable matter to plow down, while it this estimate of any man in the town- moisture in the soil. During the year will be no trouble to plow under the ship, owing to his long experience we have, as a rule, between 30 and 40 and thorough knowledge of the outfit, inches of rainfall and this is ample, and his figures will doubtless prove to were it properly distributed, to take care of the needs of growing crops. Concerning the steam roller, it may But while we have no specially disbe said without reservation, that eith- tinct rainy season and dry season, er a steam or gasoline roller is abso- there are certain periods of the year lutely essential. In order to construct in which rainfall is more abundant crushed stone roads properly, a roller than at other times. During such peof 10 tons weight is required. An riods there is a great excess of rainamount of rolling amounting to 30 fall and therefore a desideratum in days' work is done on each mile of farm management is the perfection of road built. Much of this rolling is a drainage system which will permit done in the evening, after the work of the carrying off of the excess rainwith the crusher has ceased. It is the fall without detriment to the soil and

We have just enough rain in this

Excepting in certain localities in and with the amount of rainfall which It is not the policy of Fayette town- we have during the year in most instruct stone roads. The matter is in some of the principles governing the the tax for this work seem too heavy, into operation for maximum crop pro-

### The Conservation of Soil Moisture

The conservation of soil moisture falfa may be successfully seeded as build only good roads, even though the is a very necessary adjunct to sucwhere in Michigan. Why not con- we may safely say, with this end in road possible? It is the policy of the weeds and vegetable growth foreign

The Capillary Water of the Soil.

The moisture of most benefit to the growing crop is the soil moisture, stretches of deep sand are being con- that is, the moisture which comes in contact with the roots underneath the soil. This moisture, of course, not only serves as the fluid medium for plant growth, but it carries with it the entire nourishment of the plant, or at least, the administrative agents which administer the nourishment to the plant. This is accomplished through what is known scientifically as capillarity in the soil. This capillarity occurs in exactly the same manner as that in which the oil in a kerosene lamp is fed through the wick to the flame. The influence of the capillary attraction causes the water in the soil to mount higher and higher until it reaches the surface where, through the influence of the sun's rays or through the influence of the demands of the growing crop, it is removed and thus creating temporary deficiency at this point, more water is drawn up.

### Water Removed by Crops is Enormous.

Unless one has observed the matter sufficient vegetable matter to keep the soil in a good mechanical condition and well supplied with nitrogen.

Line cost of the stone crusher; separation of the section the cost of the surface and time of the preparation of the section that is a very slight percepted from a steam roller? What is the cost bed for wheat. Lime should not be closely, there is a very slight percepted from a steam roller? applied to the surface and immediate tion indeed of the enormous amount is it essential to have a steam roller? Livingston Co.

C. H. ately plowed under as this tender of water which is necessary for the ately plowed under as this tender of the section of the sect Taking up the above questions in place it too far from the surface supplying of a growing crop during a able results it will generally be found their order, will say that the cost of where it is needed. Neither should day. Thousands and thousands of the stone crusher separate from the the caustic forms (hydrated lime and gallons of water are pumped into the roller, is \$1,500. When Fayette town- quicklime) be applied in connection air, as it were, through the respirapermanent improvement should be to ship first commenced the construct with manure and fertilizers. It is tory processes of plant growth, and tion of crushed stone roads, the ma- better to plow the manure under and this water reaches the plant through Kindly advise me as to the best rental charge not to be collected, procase the manure is desired for top-pillarity. To divert all of the capillary way to rot straw so as to apply it to vided the machinery was purchased dressing, the lime should be worked water of the soils to the rootlets of after trial. The experiment in this into the soil at least two weeks prior plants is the farm problem involved wind of rood construction record as kind of road construction proved sat- to application of the manure. Like- during the growing months in which, isfactory and the outfit was purchas- wise it is well to apply the lime some as a rule, rainfall is unevenly distrib-

(Continued on page 580).

# Horticulture.

### Ward Orchard Notes.

This is truly the rush season on a fruit farm and we are probably experiencing more the usual rush on account of the extra work of getting things in running order. But, as yet, the delays we have had have been nothing serious.

We have kept two of our spray rigs working up to blossoming time, and have covered the second time before the blossoms, the Spies, Baldwins and Shiawassee, the varieties which are the latest in blossoming and the most susceptible to scab we have.

In spraying we maintain about 200 pounds pressure and have two men to a rig, one on the rig and the other on the ground. Unless the wind is very strong, we spray both rows as we go, the man on the tank taking care of the tops and a great share of the head of the trees, and the man on the ground the lower parts, giving the trunks special attention. some of them are affected with cank- plants for short periods to the fumes er and winter injury.

### Spraying Equipment.

nozzle, which some call an enlarged cial importance. vermorel, using one to each rod. The while the man on the ground gets besom spraying we intend to use three men on the ground and one on the

Had it not been for the numerous unpreventable delays we would have had the work up in good shape, because we are quite sure that we have now the equipment to take care of things in time. In addition to the regular equipment which was on the place when we took charge of it we purchased a 15-30 tractor and a tractor disk, which is a cutaway disk of 40 disks, and makes a 12-foot cut. We realized that if we were to cultivate the orchard in good shape we would need eight or ten teams. These teams would be necessary at this time of the year, but in a few months most of them would be standing idle. The original cost, and the cost of keeping that number of horses would be large and the number of hours you can work the teams would be limited by their endurance. With the tractor we can keep going every daylight hour and even work at night if necessary. The night work we have tried out and find that it works very satisfac-One ordinary automobile gas light furnishes plenty of light for this work. It was quite interesting to see the tractor, which may be likened to a one-eyed monster, traveling around the field at night.

### Saving Time in Spraying.

In addition to the tractor being a the time was consumed by the spray and apparently more vigorous. rigs going to the spray shed to fill up. From the farther side of the orchard the spray shed is about three-quarters plain the reason for this effect nor ed by this method. of a mile away and traveling this of- have their experiments gone far ten during the day takes time. In a enough to warrant definite conclushort test of the tractor hauling wa- sions. However, these results open

in applying the next spray, with which ones does not have very much latitude in the way of time for the best results.

At the present writing (May 19) Wagener, Wealthy and Duchess trees are in full bloom and are blossoming very heavily. The Jonathans are also budded well and will be out in a few days. The Shiawassee, Baldwin and Spy are not going to blossom as fully as the others, but still have enough to set for an ample crop. Our blossoms were not out during the bad weather of the week of the 11th, and we can see no bad results in any way from that weather, except that it delayed us a little in our work. The weather conditions at present are ideal and by all prospects we are in for a big crop of fruit.

### SPRAYING APPLE TREES WITH NITRATE OF SODA.

Horticulturists are familiar with the trunks are well sprayed because they use in forcing plants is now a comthe blooming period and consequently We use the regular eddy chamber the practice has become of commer-

We are now learning of another rods are eight and ten-foot lengths, similar practice which promises to beand for the man on the tank we al- come of importance to fruit growers low a little over ten feet of hose, in some localities. About two years ago we heard of an experience of a tween 25 and 40. For the after blos- California apple grower in spraying some of his trees with a solution of leads of hose on each rig, with two nitrate of soda. The orchard in question was composed of Yellow Bellflower trees which had been unfruitful. The trees blossomed abundantly. but fruit failed to set, so the owner reasoned that an application of nitrogen would be beneficial. Consequently, nitrate of soda was applied to the trees in the usual form and as spraying operations were then in progress, he concluded to dissolve it upon his trees. He apparently had no reason for using the material in this way and the thought was probably suggested simply by the use of the spraying machine.

### Applied to Ground and Tree.

The fertilizer, in both forms, was applied at the same time, which is about two months before the blossome open. The sequel showed, probably much to his surprise, that the trees that were sprayed with nitrate or protection, no matter how hot the solution set an abundant crop of fruit, sun, but should the moisture draw to poor crop.

The story of this result was spread broadcast throughout the country for dust mulch restored. Do not water what it was worth and a number of for three or four days after transexperiment stations have been inter- planting, but maintain the dust mulch ested in the subject. The first bulle- unimpaired. tin, however, recording definite experiments, recently appeared from the or flats the plants have kneed over, Department of Agriculture-Research it will be well to set them deeply Bulletin No. 5.

### Results of Experiments.

14. This will be a decided advantage some solution which will also retard rows of plants.

bloom and at the same time increase fruitfulness? In seasons like the present, when state-wide damage has befallen the peach crop, such possibilities are more than likely to be dreamed of, but more particularly in the case of damage from late spring frosts. The retarding of the blossoming period for only a day or two could often mean the difference between success and failure.

Then again the possibility of medicating trees is suggested so that they may more readily withstand the ravages of diseases. Experimenters have long been interested in this subject, but, so far, with scant results. But no doubt the California experiments will stimulate such inquiries and it is likely that a great advance in the knowledge of this general subject may soon be made.-Prof. W. Paddock, Ohio College of Agriculture.

### TRANSPLANTING.

Plants to be moved into permanent quarters in the open ground from hotbeds and flats should have been subjected to a few days of open-air treatment-allowed to go rather dry at times and hardened off by full ex-The effects of ether upon plants and its posure to the sun; they should be well watered the night before transplanthave been neglected in the past and mon practice. Exposing the dormant ing and, if possible, moved while still fresh in the morning. Only as many of the anesthetic results in hastening plants should be lifted at one time as can be got into the ground before thev wilt seriously. Everything should be in readiness for planting before a plant is lifted from the bed all planting lines marked out.

In lifting plants from the hot-bed or flats great care should be exercised that the tender, fibrous roots are not injured; pass the trowel well down below the lowest tip of the roots and lift a block of plants together; separating them as they are set in the ground.

The condition of the weather, so that it is free from frost, is not of moment but the ground should be in condition to allow of the forming of a dust mulch about the plants or advantage should be taken of a spell of rainy weather.

### Setting the Plants.

In setting the plants a hole should be made of sufficient size to accommodate the roots, the plant placed therein and a portion of the soil drawn about it and pressed rather firmly about the roots; the hole should then be filled with water and when this has soaked away the remainder of the soil drawn up and a dust mulch formed about the plant to retain the moisture about the roots. Plants set in this way will require no shading while the other trees gave the usual the surface or a shower follow the planting the ground should be gone over with a hoe or other tool and the

When by overcrowding in the bed enough in the ground to provide an In brief, their plan of experiment upright growth for the stem; tomatireless worker in cultivation, we are was as given above and the results toes which have become badly bent going to use it to great advantage in were the same, viz.: the trees blos- and have started root growth along spraying. We have a thousand-gallon somed about two weeks earlier and the stem may be trenched in the entank mounted on heavy trucks and set an abundant crop of fruit, while tire length of this growth to advanwith this we shall have the tractor the untreated trees were unfruitful. tage, leaving only the upright part of haul water to the four spray rigs in It was also noticed that the buds on the stem above ground. Plants which the field. We found that over half of the treated trees were more plump have made too rapid a growth and may have a portion of the leaves removed before planting, cabbage and The authors do not attempt to ex- cauliflowers being especially benefit-

Branch Co. IDA D. BENNETT.

Keep the newly set small fruit ter for the spray rigs we found that up a broad field of inquiry for if cer- plants well tilled. Pick the blossoms it nearly doubled the number of tanks tain materials applied to trees at the off of all of them, especially the strawof spray each rig would put on. So, right time will cause early blossoming berries. With the latter it is desirinstead of applying six to eight tanks and lessen the effect of sterility, why able to allow the plants to put all a day, each rig will apply from 12 to may it not be just as possible to find their energy into the making of good

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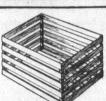
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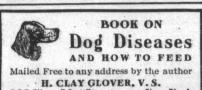
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# Live Stock.

VENTION.

The Seventh Annual Spring Conven-Association, held in Lafayette, Satur- meal daily per thousand pounds live day, May 16, was one of the most suc- weight were fed instead of two and cessful meetings of the organization. one-half pounds. They gained 423.4 The attendance, owing to the very pounds per head. The cost of gain favorable weather for farm work, was \$10.90 per cwt. The selling value above the average, being between 300 including pork, was \$2.89 and when and 400 people.

The meeting was called to order at cattle the profit per head is \$10.38. 10:30 a. m., by President Maurice Lot 1 was fed the same as Lot 6, Douglas, of Flat Rock, Indiana, who except that soy bean meal was fed an extensive cattle feeding plant.

Results of Feeding Trials.

Indianapolis, at \$7.45 per cwt.

of \$12.21 per cwt. The selling value steer, including pork, was \$5.56. of the cattle in the feed lot, as placed by the commission men on the basis cluding pork.

except the clover hay was replaced by latter will be imported." oat straw. The rate of gain was slightly greater than in Lot 4 and the cost of gain was reduced 50 cents per Mr. J. D. Waters, of Dawson, Illinois, cwt. by the use of the cheaper rough- gave a very interesting talk on his age. The selling value of the cattle methods and experiences in breeding was the same in both lots. The profit and feeding cattle. His experience per steer in Lot 6, not including pork shows that through a series of years produced, was \$4.94, and including the cattle business has proven profit able and he thinks the future holds with the results secured last year just as bright prospects. He says: prices remained mostly steady with the prospect for breeding our own that where cattle are on a full feed of cattle was never as bright as at the corn, cottonseed meal and silage they will eat such a small quantity of dry roughage that the nutritive value of fully believe the chances are very such dry roughage is of very little slim to find a better occupation than shows that through a series of years hurry to sell.

Horses were not in excessive supply last week, and although the geral demand was only fairly large, eral demand was only fairly large, prices remained mostly steady with the bulk of the sales below \$200 per head. Pairs of farm geldings sold at \$100@150, pairs of drivers solng at \$150@250. A few prime heavy drafters brought \$285@310 per head, but most drafters sold around \$225@275, while was never as bright as at the present time." was the same in both lots. The profit and feeding cattle. His-experience

INDIANA CATTLE FEEDERS' CON- importance. Oat straw, owing to its lower price, proved more profitable in this ration than did clover hay.

Lot 5 was fed the same as Lot 6, tion of the Indiana Cattle Feeders' except that four pounds of cottonseed which no doubt kept many at home, was \$8.70 per cwt., indicating that was not quite up to the high record they carried the same degree of finish of last spring, but was somewhat as Lot 6. The profit per head, not the pork produced is credited to the

gave a short and interesting talk on instead of cottonseed meal. The catthe cattle feeding business in general. tle receiving soy bean meal were too His faith in the future of the industry "loose" most of the time and did not the is shown by the fact that he has re- relish their feed as much as those recently erected, at a considerable cost, ceiving the cottonseed meal. The cost of gain was \$10.94 per cwt. and the selling price \$8.60 per cwt, in the feed The results of the feeding trial at lots. The profit per head was \$2.41

ket during the first part of November Lot 4 except that native alfalfa hay replaced the clover hay. The rate of gain was 415 pounds per head. The cost of gain was \$11.57 per cwt. The keted this summer too liberally. and were valued in the feed lots by replaced the clover hay. The rate of commission men from Chicago and gain was 415 pounds per head. The The cattle in Lot 2 were fed a ra-selling valuation was \$8.40 per cwt. tion of shelled corn, cottonseed meal which was the lowest lot in the exand clover hay. They gained in 175 periment. Not including pork, the loss days 426.9 pounds per steer at a cost per steer was \$3.89, the profit per

The Effect of "Free Meats."

At the close of Mr. King's address of the Chicago market, was \$8.60 per and the discussion which followed, cwt. This shows a loss of \$4.17 per lunch was served in the judging pasteer, not including the pork produc- vilion. This was followed by the aded and a profit of \$6.73 per steer in- dress of Mr. J. T. Alexander, of Chicago, on "Free Meats," and its effect The cattle in Lot 3 were fed shelled upon the producer and consumer. He corn, cottonseed meal, and native al- said in part: "At the very moment falfa hay. They gained 405.6 pounds when growers needed every possible per head which, it will be noted, was incentive for breeding operations they somewhat less than the gain made by were assured that cheap beef could steers in Lot 2, where clover hay was be insured by the simple process of fed. This was at least partly due to wiping out the tariff. I assert, withan unthrifty steer in Lot 3 which fell out fear of successful contradiction, far below the average in rate of gain. that this ill-advised legislative action The results of this one trial indicate defeated the very object sought, rethat clover and alfalfa hay have prac- duction of cost to the consumer; but tically the same effect upon the rate for free trade thousands of small of gain with fattening cattle. The breeding herds would have been escost of gain in Lot 3 was \$13.88 per tablished and the 1914 calf crop would cost of gain in Lot 3 was \$13.88 per tablished and the 1914 calf crop would ing buyers are exercising caution. Stock steer calves have brought as per cwt. in the feed lots. Owing to relief for the consumer than a few the higher cost of alfalfa which was \$8.50 per 100 lbs. in the Chicago market recently. At Missouri case market steep proportion of stock steer calves have brought as \$18 per ton, the steers in this lot lost beef of dubious quality from South \$11.50 per head, not including pork America. Fear discourages human the are arriving rather sparingly in the consumer than a few high as \$8.50 per 100 lbs. in the Chicago market recently. At Missouri case markets the proportion of stock cattle arriving is large, but such cattle arriving rather sparingly in the consumer than a few high as \$8.50 per 100 lbs. in the Chicago market recently. At Missouri case markets the proportion of stock cattle arriving is large, but such cattle arriving rather sparingly in the consumer than a few high as \$8.50 per 100 lbs. in the Chicago market recently. At Missouri case markets the proportion of stock cattle arriving is large, but such cattle arriving rather sparingly in the consumer than a few high as \$8.50 per 100 lbs. in the Chicago market recently. \$11.50 per head, not including pork America. Fear discourages human produced, and including pork the loss energy, and it was fear of a deluge of was \$1.03 per steer.

The cattle in Lot 4 were fed shelled score land owners from breeding op.

The cattle in Lot 4 were fed shelled score land owners from breeding op.

per head. The cost of gain was \$10.74 is capable of producing an adequate it does not put on as much flesh. He per cwt. and the selling value was \$3.70 per cwt. The profit per steer supply condition, a continuance of which are rapidly growing in favor not including pork, was \$3.41, and including pork the profit was \$10.95 per have the capital, brain, muscle and steer. Comparing Lot 4 with Lot 2 feed, and only lack confidence in the shows the results secured from adding corn silage to a ration of shelled try. As long as cattle and beef are corn, cottonseed meal and clover hay.

Lot 6 was fed the same as Lot 4 of the former and quantities of the same as Lot 4 of the former and quantities of the same as Lot 4 of the former and quantities of the same as Lot 4 of the former and quantities of the same as Lot 4 of the former and quantities of the same as Lot 4 of the former and quantities of the same as Lot 4 of the former and quantities of the same as Lot 4 of the former and quantities of the same as Lot 4 of the same as Lot 4 of the former and quantities of the same as Lot 4 of the former and quantities of the same as Lot 4 of the same as Lot 4 of the former and quantities of the same as Lot 4 of the same as Lot Lot 6 was fed the same as Lot 4, of the former and quantities of the

Beef Production Profitable.

Following Mr. Alexander's address,

to breed and produce the kinds of cattle that I have spoken of, and to become a breeder and tiller of the soil, I consider one of the greatest honors.' F. G. KING, Secretary.

### LIVE STOCK NEWS.

D. H. Robinson, of Daviess Co., Mo., has come to regard the silo as a necessity to farmers of the corn belt states if they intend to carry on feeding cattle. Last fall he bought in the ing cattle. Last fall he bought in the Kansas City market 117 head of heifers, which he fed on silage largely and marketed three carloads of them recently in the same city at \$8 per 100 lbs. He has one carload left. He can figure out a profit, he says, which is more than he could have done had the per hear for the silage used in fatis more than he could have done had it not been for the silage used in fattening them. Mr. Robinson built two years ago four silos of 150 tons capacity each, and he has discovered that no other feed can compare with it for cheapness. It goes farther as a forage feed than hay or fodder, or any rough feed he ever used.

Stock feeders living in territory Stock feeders living in territory triubtary to the Chicago market where corn has been abundant have been unloading their cattle carried through the winter, and recent receipts have embraced a good showing of pretty good cattle, but such steers as bring \$9 and over are scarce. However, there have been a good many \$8.50@ 8.90 cattle that served killers' purposes and are convertible into good beef. Fat little yearlings are in active de-The results of the feeding trial at lots. The profit per head was \$2.41 Fat little yearlings are in active dePurdue which has just been completed, were discussed by Mr. F. G. King.
The cattle used in the experiment had been purchased on the Chicago market during the first part of November

Lot 4 except that native alfalfa hay easy such as \$2.41 Fat little yearlings are in active demand at good prices, with especial favor shown to high-dressing yearlings selling at \$8.75 and upwards, but halffat yearlings are strongly discriminated against. The best course for ownevery first part of November Lot 4 except that native alfalfa hay ere of little cattle to follow is to feed

The wool market shows an unmistakable advancing tendency, and active buying is expected all summer. It is stated on good authority that the world's clip this year is insufficient to operate 75 per cent of its loom capacity, and it has been predicted that the domestic clip will be used up in the course of six months, necessitating much increased imports from abroad. Of late, western sheepmen have waked up to a realization that they sold their clips at too low prices. In Montana it is difficult to buy wool below 20 cents a pound.

Recent bad breaks in the Chicago The wool market shows an unmis-

Recent bad breaks in the Chicago Recent bad breaks in the Chicago hog market caused many stockmen to wait for rallies in prices before selling any more hogs. There is no oversupply of swine in the country, and decidedly fewer hogs have been slaughtered in the west since March 1 than for the corresponding period last year. The packers are anxious to have hogs placed on a lower hasis. to have hogs placed on a lower basis, but they are still bringing much high er prices than in most former years and are making large returns for their

care and feed.

Prices asked for young stock cattle look so radically out of line with the prices paid for fat ones that intending

corn, cottonseed meal, corn silage and erations.

clover hay. They gained 431.8 pounds per head. The cost of gain was \$10.74 is capable of producing an adequate it does not put on as much flesh. He

ers at \$7.85 and made gains of 500 lbs. while on feed, or an average of

almost four pounds a day.

Recent reports gathered from five far western states, comprising Montana, Wyoming, Idaho, Oregon and Utah, show that the 1914 wool clip will run approximately 25,000,000 lbs. Oregon and below that of last year. Owners who have any wool left are in no great

# Dairy.

we ever had; as we have had no ex-perience in butter making I would like a little information as to how like a little it is done.
Wayne Co. P. A. R.

Making butter from one cow, good butter, is quite a serious proposition. We practically have to go back to raising the cream by the gravity process in pans. The principal way used to be to use a small glass churn like a two-gallon crock or something of that sort for a churn. They didn't have a sufficient amount of cream to did they have enough to pay to have a barrel churn or a box churn.

butter from one cow is that you have duce better results. to leave the cream so long before you get a sufficient quantity to churn, that ical analysis would seem to show that it is almost impossible to make the they are quite as valuable as corn best of butter. Where one has a good-sized herd so that he can churn their succulency is of a greater value. every day, he has no trouble in mak- If a man argues that corn silage is ing gilt-edge butter. If you have few better than roots he simply argues cows and let the cream stand quite a that it is a substitute for roots. Exlong while it is liable to get bitter periments show that the succulency and have other off flavors which pre- of corn silage will take the place of vents you from making the choicest the succulency of mangel wurzel beets kind of butter. However, if you are or turnips, but no one argues that willing to do all of the work by hand corn silage is better. The argument and are particular about it, you can is that you can grow so much more make good butter from one cow.

and set it in just as cool a place as silage than to feed roots. Not only you have in the summer time. If the that, but it is more economical to cow is part Jersey the cream will rise store the silage. It can be done in a better than it will with some other more economical way. Consequently breeds, because the globules of fat most all dairymen have given up the are larger and will more readily idea of growing roots for succulency come to the top. Skim the milk into and grow corn instead, but there isn't the cream jar when it is ready to be any question but what you can get skimmed and set it away in a cool just as good results with roots as a place. Do the next milking the same succulent food as you can with corn way and you can put it into the same silage. The chemical analysis of crock if it is kept cool, because the roots are equal in food value to one cream is cool when it is skimmed. If pound of timothy hay. you have a hand-separator and the timothy hay is worth \$15 per ton one cream is warm you will have to cool could afford to pay \$5 per ton for it before you mix it with the older roots or for silage. Ordinarily these

cream for a churning, and you ought to pay \$4 or \$5 per ton for the roots. not to wait over three days, then If it wasn't for the trouble of growing gradually warm the cream up to 70 them, and also the expense of storing degrees and let it stand over night, them, and the fact that they are not Cool the cream down to 60 degrees suitable for feeding in the summer before churning. You can rig up a time when the pastures are short, little churn with a stone crock and more roots would be fed today than have a lid made to cover it, and a are now being fed. dasher made. By working the dasher up and down you can break the globules of fat and get them to accumulate together in masses.

If you use this old-fashioned dasher churn you will have to take the butter out of the churn with a ladle and put it into a butter bowl and wash it the best you can. Work it over in water a couple of times anyway, un-

### FEED-ALSO COMPARED WITH GRAIN.

I make in the grain ration? I am sure that the cows would be benefited by the succulency of the roots but the latter are quite expensive to buy and I could not afford to feed them unless I could not afford to feed them unless I could make a corresponding saving in the cost of either the grain or the hay as fed last winter. What should be the approximate cost per ton of the different roots mentioned? Would appreciate an early reply in order that I may contract for the growing of the roots, if necessary. They are rather scarce in this part of our county. Subscriber.

The Dakota Experiment Station has

found out that 10 pounds of roots will take the place of one pound of grain, and if you feed 30 pounds of roots per day you can get along with three pounds less of grain. You will get better results with three pounds less grain and 30 pounds of roots in the primitive methods of butter making, place of the three pounds of grain than you would with an all-grain ration, because a succulent food has a greater value than its chemical analysis would seem to indicate. Succulency adds very much to the ration because it makes it more palatable. pay to have a hand-separator, neither It keeps the digestive organs of the cow in better condition and she can consume more dry food and assimi-Now, the trouble in making good late more of it, and consequently pro-

As to the value of roots their chemsilage, ton for ton, and undoubtedly corn per acre than you can of roots Put your milk in a six-quart pan that it is more profitable to feed corn Therefore if crops barely sell for as high a price When you have accumulated enough as that, but one could certainly afford

### MILK REQUIRED TO RAISE A DAIRY CALF.

A series of tests was conducted by the Illinois Experiment Station to demonstrate the value of milk in calf raising and to ascertain the minimum amount of milk necessary to insure to the calves a satisfactory start in life. The first test was preliminary and intil the water runs away clear. Then dicated that during the first two let it stand over night, then work it again and then you can make it into again and then you can have such a small butter where you have such a small about three per cent butter. Remember to be gradually changed to skimmilk), the calves receiving practically all of their nourishment up to eight amount to churn, is to churn often. weeks, from the milk. Following this, VALUE OF ROOTS AS SUCCULENT a grain supplement may be fed. In the second test in which the average amount of milk used was 152 pounds of whole milk and 435 pounds of skim-Not having a large enough herd to justify a silo I am inclined to attempt the feeding of roots if they can be had at a reasonable price. Last winter my ration was limited to mixed timothy and clover and about 10 to 12 lbs. per day of mixed grains. If I fed about 30 lbs. of roots per day—turnips, rutabagas and mangels in succession—how much reduction could

# Seeing the Difference

BETWEEN THE

AND OTHER

# Cream Separators

T DOSEN'T TAKE AN EXPERT KNOWLEDGE OF mechanics or a long working test to tell the difference between the De Laval and other cream separators.

N THE CONTRARY, WITH A. 1914 DE LAVAL machine placed beside any other separator the difference is apparent at first sight to the man who never saw a separator before.

> IF HE WILL THEN TAKE FIVE minutes to compare the separating bowl construction; the size, material and finish of the working parts, particularly those subject to wear and requiring to be occasionally taken apart and put together; the manner of oiling, and everything which enters into the design and construction of a separator as a simple durable machine, he will still further see the difference.

IF HE WILL GO A step farther and turn the cranks of the two machines side by side for half an hour, particularly running milk or water through the bowl, he will see still more difference.

AND IF HE WILL take the two machines home, as every De Laval agent will be glad

to have him do, and run them side by side in practical use, the De Laval one day and the other machine the next, for a couple of weeks, he will see still greater difference in everything that enters into cream separator practicability and usefulness.

THE MAN WHO TAKES EVEN THE FIRST STEP indicated in seeing for himself the difference between the De Laval and other cream separators dosen't put his money into any other machine one time in a thousand.

THE COMPARATIVELY FEW BUYERS OF OTHER separators are those who merely read printed matter claims or listen to the argument of some de ler working for a commission, and who do not think it worth while to see the difference for themselves.

THE WISE BUYER OF A CREAM SEPARATOR TODAY does see this difference when buying his first separator, while the unwise or careless one usually finds it worth while to do so when he comes to buy a **second** separator a year or two later.

EVERY DE LAVAL AGENT CONSIDERS IT A PRIVilege to show the difference between the De Laval and other separators, and to afford every prospective buyer the opportunity to try out and prove the difference to his own satisfaction, if on first examination he feels the slightest doubt about it.

THAT'S THE REASON WHY FOUR BUYERS OUT of five are buying De Laval Cream Separators in 1914 and why the use of De Laval machines will, before long, be nearly as universal on the farm as already is the creamery and milk plant use of power or factory separators.

# The De Laval Separator Co.

50,000 BRANCHES AND LOCAL AGENCIES THE WORLD OVER





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**DETROIT**, MAY 30, 1914.

## Decoration Day, 1914.

"Lest we forget," Lest we forget."

As the years roll away and we see in clearer perspective, the four terrible years of half a century ago when the nation was rent in twain in the black and crimson hurricane of civil war, the heroic figures of Grant on the one side, and of Lee on the other, loom highest on the fighting lines.

And as we look back from this distance, the one has come to personify last to draw the hearts of all men after him as a guiding star of good will toward men.

While Decoration Day, or Memorial was born of the spirit of that great

field of Gettysburg in the early days farms less than one year, while 628,of July last year and beheld the ven- 000 reported a residence of one year. erable survivors-victors and van. Of course, the moving about is mostly quished of all history's most magnifi- done by tenant farmers, especially reunited country under one flag.

Among the men who wore the blue farms for this length of time. and among the men who wore the grey, those of the broad minds and statistics is the fact that there is a big hearts shared the brotherly for much greater stability of occupancy giving spirit so admirably displayed shown by the farmers of the north voiced truly the great American stability which is reflected in the average crop yields of the north as comsaid. "Let us have Peace"

the former than those of the south or west, a nent road in accordance with certain provisional government and mobilize specifications, after the road is in an army of well-armed volunteers as spected and approved by the state do soon as the hill leaves the house of the bill and threaten to establish a nent road in accordance with certain provisional government and mobilize specifications, after the road is in an army of well-armed volunteers as spected and approved by the state do soon as the hill leaves the house of the bill and threaten to establish a nent road in accordance with certain provisional government and mobilize specifications, after the road is in an army of well-armed volunteers as spected and approved by the state do soon as the hill leaves the house of the sound of the bill and threaten to establish a nent road in accordance with certain provisional government and mobilize specifications, after the road is in an army of well-armed volunteers as spected and approved by the state do soon as the hill leaves the house of the sound of the state of the said, "Let us have Peace."

arm, realizing and in heartiest sym- riods of occupancy are comparatively pathy with his chief's great purpose long. While the stability of the home in peace and harmony.

their horses home with them; they land must be rented at all. This is plowing!"

narrow sense of duty. With what fine farm lands. 39 to 45 Congress St. West, Detroit, Michigan. dignity and tender-hearted shrinking from useless sacrifice of human life, Road Bee Day Governor's proclamahe accepted the inevitable! No wonder the South loved him, and the North respected him!

pany offered its presidency to General state indicates that in many commu-Lee at a generous salary; the gen- nities needed road improvement will eral said that he knew nothing of the be accomplished by the donation of insurance business and was told that labor by public spirited citizens. In they simply desired the influence of view of this prospect, State Highway his name as its president, among the Commissioner Rogers has issued an people of the South. How splendid open letter to road officials, in which was Lee's reply: "If I have any in- he offers pertinent advice mostly of fluence among the southern people or a negative character. Included in his

Our cover design this Decoration as follows: Day seeks to recall the real spirit that Don't try to do too much. triumphed in the world's mightiest. Don't start more than you can finnation of one magnanimous and far- el road in two days. without ostentation, to a loyal nation- drained. al allegiance.

Verily so long as that spirit endures and leave them impassable. beneath her folds, Old Glory will in peace or war.

"God help us to be true, All truly loyal to America: Old Glory ever bright,
For world-wide peace and right
Lead always toward the light
America."

Wanderlust. tempt was made to the perfecting of arrangements for determine the average length of occupancy of farms in season, etc.

the United States. The resulting data

the perfecting of arrangements for had made during the campaign.

Leslie Clark, chief corporation clerk in the office of the secretary of state, was killed in an automobile accident on May 24.

the battle spirit of the North and the other the battle spirit of the South in that mighty conflict over which the shortly be issued showing the length great value to the roads of the state, of periods of occupancy of farms by they will not be accomplished unless ing the past week, gave the intera brooding angel spirit, seemed at states, geographical divisions and the work is well planned and per state Commerce Commission much insections.

shown by this data is that some 52 organization of the work in every road ing out that a transaction involving per cent of all farmers who answered or school district for the purpose of the use of over \$11,000,000 was made and that he was not allowed to know the questions satisfactorily had occu- giving this first state-wide road bee what became of the money. soldier dead, yet the idea of the day pied their farms less than five years. an honest trial as a means of effect-In the north 57 per cent of the farm- ing needed improvements in the sevwas born of the spirit of that great in the north 57 per cent of the farming needed improvements in the several probably strife and from that period will ers had operated their farms for five enty thousand miles of Michigan roads. In the mediation conference at Niagara Falls, Canada, will have years or longer, while only 22 per a subscriber asks for cent had lived on them for one year ed imagery and its deepest inspiration as to what or less. In the country, however, ed imagery and its deepest inspira- cent had lived on them for one year or less. In the country, however, Astounded, even while applauding, more than one million farmers rethe world gazed upon the historic ported that they had operated their cent charge of fifty years before—re- share tenants, 52.27 per cent of this peating its great striking incident class of farmers being reported as without guns or bayonet or cannon: having occupied their farms for one but with the outstretched arms of year or less, and only six per cent of good will and closing with the warm share tenants had occupied their handclasps of love and loyalty to a farms for ten years or over, while 48 per cent of owners had occupied their

An encouraging feature of these pared with either the south or west, Grant, the sturdy, the alert, the as is proven by figures showing the sleepless, the comprehensive, whose average yields in these different secgreat mind carried the myriad sided tions of the country. It is clearly problem of a colossal war and in shown by the information gathered which the battle was but an incident. that it is not only better for the in-And yet, simple hearted, approachable dividual farmers but for the commuand candid, he was Lincoln's strong nities in which they live, where pea reunited people dwelling together owning farm population is necessarily greater in every case than that of How characteristic it was of Grant the tenant population, this is an arguin fixing the terms of surrender at ment for a longer occupancy of the Appomatox, to say, "Let them take all same farms by tenants where the

superb, chivalrous, soldierly gentle- tions between farm owner and farm

Since the issue of the Advice. June 4 and 5 as offi-

After the war an insurance com- formation from several points in the ed of some dealer near you. among any people, it is not for sale." letter of advice are several "Don'ts"

civil conflict; to recall its matchless ish. You cannot build a macadam leaders—the priceless services to the road, nor very long stretches of grav-

seeing in victory; the exemplary con- Don't haul gravel onto roads that duct of the other in defeat-returning have not been properly graded and

Don't plow up long stretches of road

Don't scrape sods onto the traveled stand for a united nation, invincible roadway and leave them for passing last vehicles to smooth down.

made, such as the removal of logs, rocks, stumps and stones from the Lead always toward the light
America."

CURRENT COMMENT.

In the collection of

Our Agricultural

Wanderlust.

Focks, stumps and stones from the Rev. Louis Patmont, a prohibition roadway, the filling of holes, the covering of spots of sand with clay or disappeared March 31 during a local option campaign in Westville, Illinois, was found alive Saturday, a prisoner in an abandoned farm house 300 miles away. From his story he had been cruelly treated. It is believed that his abductors were enemies whom he had made during the campaign

formed under intelligent supervision, One of the most important facts and a plea is made for the effective

> Roads. constitutes a state

there has been some discussion in his community as to whether the payor stone road makes it a state road. Properly speaking, we have no state are located, or by the county at large are located, or by the county at large tilities until the conference has arin the case of certain selected main rived at some conclusion. roads where a county has adopted the The third reading of the British county road system. In order to pro- home rule bill will be made this week mote the building and maintenance of permanent roads, the state has organized a State Highway Department and appropriated funds for the payment of a fixed reward to the townment of a fixed reward to the townspected and approved by the state department. Such state reward roads, however, such state reward roads, an army of well-armed volunteers as soon as the bill leaves the house of commons.

The militant suffragists of England partment. Such state reward roads, The militant suffragists of England however, remain under the control of attracted considerable attention last the township or county building them week by their attack upon Buckingthe township or county building them and must be maintained by the lesser

will be needed in the belated spring in line with the experience of other up-to-date dealer and you will see that the countries, and should be an incentive most of his stock is made up of ad-And on the other side is Lee, the to closer and more businesslike rela- vertised lines of merchandise.

The reason for this is that dealers The Michigan Farmer man, the beloved leader, honestly, tenant, both of whose interests would know the advertised article is usually courageously, self-sacrificingly, follow- be better served by lengthening the better than the unknown article, and The Lawrence Publishing Co. ing to its ultimatum an unhappily average period of the occupancy of that the advertiser will stand behind his article and guarantee satisfaction.

This is important to the dealer who wants to hold his trade, for it relieves tion setting apart him of much of the responsibility.

Most of the articles advertised in cial road bee days in Michigan, in the Michigan Farmer can be purchas-

### HAPPENINGS OF THE WEEK.

### National.

The lake steamer W. H. Gilbert was rammed by the Caldera off Thunder Bay in Lake Huron last Friday morning, and the former vessel went down in four minutes after the crash. entire crew of 23 men was saved.

Police-Lieutenant Becker, of New York city, who was recently tried the second time for participating in the murder of Herman Rosenthal in 1912, was found guilty of murder in the first degree last Friday night.

The gigantic cantilever crane built the United States government at Mare Island, San Francisco harbor, for shipbuilding purposes at a cost of \$250,000, burned Sunday morning. Beneath the crane was the \$2,000,000 war vessel which the government is building. The vessel was damaged by the flames the flames

Colonel Rosevelt, who arrived from his expedition through South America last week, will visit Washington on Tuesday, call on President Wilson at White House, and later deliver a Suggestions as to what may be lecture on a river he and his party done to the best advantage are also discovered in the upper Amazon region, and on other points observed

during the expedition

Rev. Louis Patmont, a prohibition

side information relative to the ne-gotiations between that road and the Grand Trunk a few years ago, point-

Foreign.
By the end of this week it is exgiven as to the proposals of road, intimating that ferent representatives since the ses-n some discussion in his sions are secret. General Carranza, chief of the rebel forces, refuses to community as to whether the pay- send an envoy to sit with the others ment of the state reward on a gravel during the deliberations, but has sent a message to President Wilson in which he declares he will be willing Properly speaking, we have no state to consider any solution of the Mexroads. All roads are built and cared ican problem which may be decided for by the townships in which they upon by the mediators. It is also are located, or by the county at large hinted that the rebels will stop hos-

shall be excluded from the operation of the bill and threaten to establish a

and must be maintained by the lesser ham palace, where they had gone to present a petition to the King. On municipality, the state having nothing the following day pictures worth thoumunicipality, the state having nothing more to do with them. This explanation is made for the benefit of other readers who, like the inquirer above mentioned, may not fully understand the functions undertaken by the state in the matter of road building.

DEALERS PREFER ADVERTISED GOODS.

Walk through the store of any live, up-to-date dealer and you will see that most of his stock is made up of advertised lines of merchandise.

Different a petution to the king. On the following day pictures worth thousands of dollars, and which cannot be replaced, were destroyed in art galleries of London. Sunday parades were made through the streets. In several places near-riots occurred and finally Mrs. Pankhurst, the undaunted leader of the women suffrage movement in England, was arrested.

A million torches and lanterns illuminated Tokio Sunday night as the body of the Empress Dowager Haruko was borne through the streets in a beautiful car drawn by white oxen.

Francis Kossuth, national leader of the Hungarians in their political struggles, died at Budapest Monday morning, at the age of 73.

# 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

# hose POR home and for country" was with a feeling that wells up from the render of Lee at Appointant These alive for battles yet to come, for battles spirit of the soldier of '61. bottom of the heart. And to those and many other events of the

been necessary. Only now and then are men called forth to war. Other generations must construct anew out of the elements that pass through the siege of battle.

But as nature supplies the ages with wheat through little kernel, and as she replenishes the forest with oaks from the common acorn, so she protects nations by the spark of patriotism implanted in the breast of her people. When a crisis comes this spark mounts into a flame that would consume the enemy and save the land. When peace reigns the spark is kept aglow with the remembrance of the sacrifice made by those who were called.

And what a sacrifice it was that kept us from national dissolution in the sixties. Fathers and the older brothers were giving their lives on battlefields in the the south. Homes were made deso-Mothers, daughters and the vounger brothers struggled to fill vacant places, to keep the home supplied with necessities, and to send food. clotnes and bandages to the soldiers in the field. Day after day they worked and waited

the spirit of the soldier of '61. bottom of the heart. And to those and many other events of the great tles of peace, we hope, of war, if He went forth to die, if neces- who think and dream of the things war impress every American with the need be. sary, that his country might live. He they did, comes a little of its awful- great sacrifice of life, a sacrifice to offered all on the altar of patriotism. ness when they run the gantlet of save the nation.

In camp, on the march, at the battle those terrible struggles. The spirit "Fold up the banners! Smelt the guns! the time of the great war, the significant, he gave himself a ransom for of loyalty at Fort Sumpter; the description, his country.

It is not to be doubted that if any of the dauntless little Monitor, at Lamenting all her fallen sons!"

to the men who remain with us from to the men who remain with us from the significance will be magnified or diminished, according as we direct the affairs of the land they saved for us.

There can be no honor in the tribute generation before or since were to be Forts Henry- and Donaldson; the ter- It is altogether fitting, therefore, There can be no honor in the tribute called upon to make the sacrifice, it rible slaughter at Pittsburg Landing that we remember the sacrifice and of the pettifogger; no reward in the would be done. But a gracious prov- and Shiloh, at Iuka and Corinth; the do honor to the men and women who words of the damagogue; no recomince has ordained that this has not long wait about Vicksburg, and its offered themselves up that the nation pense in unlawfulness, iniquity and

And while these things mean much to the men who remain with us from

> injustice. The cost has been too great for the men who wore the blue to believe that we are sincere in our admiration of their courage and valor. if we at the same time treat our country with indifference.

While problems during times of peace may not stir the hearts of men so deeply as do the activities of war, there is need that they be met with the same devotion and patriotism that prompted the men of '61 to answer the call of Lincoln. So we may go forth and build monuments to our heroes, rear marble to the very heavens and inscribe it with the finest sentiment, yet should we leave the other undone, our building will be in vain and our words hark back to us as mere mockery.

We shall bring to the strong hearts who yet feel the inspiration of the fife and drum and fall into line as of vore. a cup of cold water; we shall let them lean upon our shoulder: we shall proffer them our carriage, to take them where they would go; we shall do whatever we can to lighten their hearts and make the declining years of their lives happy

# Her Soldier Lover ALONZO L. RICE

Oh, weary eyes that closed against the light, And hands that would have rested for awhile; Oh, feet that halted long ere fell the night, And pallid lips that had forgot to smile.

Her life was nearly compassed by her door, Her view was narrowed to one little pane; The only news from foreign wave or shore Her visitors related-wind and rain.

The morrow dawned and brought the olden view, The selfsame prospect she saw yesterday; The coming year held nothing strange or new To while the slow and dreary time away.

Each day was passed alone; there, was no call Nor laughter of a child, no footstep quick. Only her ancient timepiece on the wall Notching the silence with persistent click.

The morning found her anxious for the light As though some journey waited for her feet To lands of great desire; far in the night Her flaring taper lit the empty street.

And passing there, the stranger would inquire Of the unvarying light and newly trimmed. When winter fell how leaped the freshened fire, The welcome of the hearth was never dimmed.

Her daily household cares were bounded by A circle small; there was no lifted latch, Nor stocking out at heel and toe, to try Her patience with a puzzled darn or patch.

The frayed and wrinkled edges of her shawl, As in a dream, she smoothed with nicest hand; Each day with careful eye she ranged them all, The toys and trinkets on her little stand.

There lay her Bible (untouched, unopened now), With spec a-top; it has a few worn leaves Where rest fair tresses from a childish brow,

But there was naught, no mark of sentiment Within her life to show she once was young: That she with care-free heart a-Maying went Or sought the nest gay oriole had swung.

If there was aught, she hid it well from sight, And no one questioned her; but one could see That often in the deep, still noon of night She sought a rosewood casket, turned the key:

And there were little keepsakes-useless all. We treasure such for memories they give, The long lost scenes that they once more recall, The vanished forms and faces they bid live.

A soldier's photograph and stained with tears She held most dear; he was her lover true, Who left her when began the war-vexed years. He looked so jaunty, uniformed in blue!

His letters told her that he prospered well: One more promotion waited soon, and then A stranger's hand informed her how he fell At Stony Point, and leading on his men!

The flight of time with her did not appear, And patience born of hope she did not lack. She thought from out the realm of yesteryear, He would remember and at last come back!

Her heart was young and warm with the caresses He gave at parting, nor we guessed the truth Who only saw the snow drift in her tresses, The wrinkles telling of her passing youth.

One eve fell chill: the light did not appear, The dawn of day revealed the saddened truth-For she was dead—his letters lying near— Her Bible open at the Book of Ruth!

and watched-hoping and fearing- capture; the successful battle at An- might live. And that generations yet time we shall whisper to them in hoping that the war would soon close, tietam; the repulse at Fredericksburg to come may know of the deeds of our confidence that the work of freedom or fearing that in the columns of the and Chancellorsville, and that terrible fathers let us build monuments to which they so courageously began, missing they might read the names of crisis at Gettysburg where the nation their memory. And over the graves shall continue; that what they did those they loved. And the men, they was given hope by the success of the where the great commanders and the was not done in vain. struggled through trackless swamps, federal troops; then the battle above common and the unknown soldiers So, as we go forth on this Memorial they swam the streams, they marched the clouds, and the complete victory lay, may hands of love strew flowers Day to pay tribute to the soldiers of into the mouths of thundering guns, at Chattanooga; the march to the sea and upon the waters may blossoms be the past, let us keep in mind that our they lay on fields, suffering from and northward through the Carolinas; spread in acknowledgement of our words and acts will have their largest wounds, they languished and starved the capture of Mobile; the fearful debt to the men who struggled and significance if they stand out in full in prisons, or wasted away in hospi- tragedy of the Wilderness; the raid died upon the deep. Let us stir the relief on a background of faithful sertals. Such was the sacrifice. It can-down the Shenandoah; the struggles blood of youth with their deeds of pa-vice for the country they loved. We not be measured, it can only be felt before Richmond, and finally the sur- triotism that its spark may be kept must prove our words by deeds.





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### Agricultural Conditions in Palestine. By PROF. ALFRED VIVIAN.

grown here. Sugar cane is raised in capricious a government.

hills around Jerusalem and from there to Jericho looked most unpromising at first, but we noticed here and there be found an occasional olive tree. Our guide, who was raised on an American farm and who has lived for seventeen years in Palestine, says that anywhere upon these hills the olive and the vine will grow, but that the number of olive trees is decreasing yearly instead of increasing. One reason for this is the suicidal taxation policy of the government. The taxes are assessed upon the crop produced instead of on the land, so a large crop merely means more taxes. To make the matter worse the government sells to the highest bidder the right to collect the taxes and furnishes him with soldiers to enforce the collection. The result is that the collector demands anything he sees fit, and the poor native has no recourse. In many cases the tax on the olive tree has amounted to more than the value of the crop, and thousands of trees have been cut down and sold state of affairs coupled with the easy going ways of the Arab, has resulted foreign capital.

The Arab follows the same methods in vogue in the earliest Biblical grub with any means of exterminatimes. He sows the seed in the fall tion; the chrysalis is hard to find, but to me—on the surface of the ground, and then the June bug has a way of appearing And then it all comes back again, I goes over it with what he calls a plow, in public, although it is claimed by which is nothing more than a stick some entomologists that he makes but with a shovel on it about as wide as one flight in his life. Then he goes vator. This works the ground about two inches deep, and if it jumps a few already been noted an unprecedented feet, or runs around a weed, or is number of June bugs, although it is turned aside by a stone—why should not quite time for them to appear in the worry about it? Allah is good, and force. And the entomological departations and the buterius return with sunny weather, But his voice and face we miss them every day, Each day at morning prayer we miss him when we kneel together; It is so very lonely since father went away. he worry about it? Allah is good, and force. And the entomological departdoes not want a crop that is too big Wisconsin University, is in the field There's "a rest" for all God's faithful or the tax collector will take it all.

The high natural fertility of the soil in such places as the field of Rephaim is shown by the fact that crops have been grown annually for at least 4,-000 years with this kind of culture, without manure of any kind, and while there is no way of telling exactly what the soil produces, our guide estimates the yield of wheat at about 25 bushels to the acre of tillable ground. One can not but wonder what the soil would do with good treatment. Perhaps it is a wise provision the conditions.

of olives, fruit, etc., has never occurred nights. To catch them, 16 Coleman

THE agriculture of Palestine has to the Arab. He plants a twig of olive one great handicap and one or fig from any source; says "It is great advantage. The handicap from God;" and that is the end of the is the divison of the year into a wet matter. In a way he knows better and dry season. The advantage is than he does, but his own government

has also been grown without irriga- at hand.

tion, producing three cuttings during the season and living through the summer drouth. With cactus and alfalfa and a better breed of dairy cows, Palestine can indeed be made a "land flowing with milk and honey" for it is already a wonderful land for the honey bee.

Among the unusual fruits met with that almost the entire country lies on discourages him from doing his best. was the "sweet lemon," a fruit much The Jordan valley could be made a valued by the inhabitants for its juice, The rainfall at Jerusalem amounts veritable garden if the river were util- which resembles in flavor "picnic to 28 inches annually, but it all comes ized for irrigation. At present the lemonade" except that the ice is lackduring the five or six months from waters of the Jordan are of value to ing. Such wonderful grapes as this November to April, after which comes no one. Wherever water is available country produces-big, luscious felsix months of cloudless sky with dry- the soil of the valley produces re- lows with individual berries larger ing sunshine. A better distribution of markable crops, the oranges being than we have seen heretofore; the the rainfall would work wonders. On among the finest in the world. The bunches often weigh as much as five the plains of Jaffa, where water for storage capacity of the Sea of Galilee pounds. So, while Palestine for the irrigation can be obtained, wonder- could be enormously increased at lit- most part presents a scene of agriculful crops are produced, the oranges tle expense, to furnish water to irri- tural desolation, we feel that the posbeing especially famous. Indeed, many gate during the dry season, but no sibilities are there, and perhaps in of the semi-tropical plants can be one cares to invest capital under so good time this much abused country will be ruled by a power with such limited quantities, but is mostly used Everywhere, apparently, the prickly foresight that husbandry will be enas a confection, and hundreds of men pear cactus will grow, and it was grat- couraged, and the visitor will see and boys may be seen chewing pieces ifying to find that the American Col- flourishing fields and olive groves only had made a short experiment in where now the glaring whiteness of It must be confessed that the bare feeding the cactus to dairy cows which the limestone rocks dazzle the eye.

Was eminently satisfactory. Alfalfa The means for the transformation are

### a grapevine that was flouirshing, and A State Declares War on the June Bug. By VERNE S. PEASE.

new problem for the farmer.

Perhaps the most extensive losers inches of water. small.

checked the entire country might in news about the result of the experia few years be brought under its ban. ments. for wood because of this fact. This It was then known that the white grub was no other than the offspring of the June bug; that the white grub in agricultural retrogression instead is the second manifestation of the own government protects them from year it is a June bug; next year it is such injustice have a better chance a white grub; the third year it is in such injustice have a better chance a white grub; the third year it is in than the native, and a few successful a chrysalis state (something like a I shall wait in vain to see him with olive groves have been started with coccon) well down in the ground, bear and the horses and the wagon in olive groves have been started with coccon) well down in the ground, below the plow.

the crop will come some way; and he ment of the college of agriculture, with experiments. It has five experiment stations in the sections worst afflicted two years ago, and one of There is comfort for each heartache, these is at Lancaster, in the southwestern corner of the Badger state.

Here the grub did much damage, destroying pastures and timothy meadows; killing corn by the township, and later on gnawing great holes into half the potatoes that were in the ground. Already the June bug is out in numbers to alarm the farmers. They are watching the experiments with close interest.

It has been known right along that of nature to limit the rainfall under June bugs are attracted by lights in the early evening. They fly from dark Such a thing as improving varieties until about ten o'clock on warm

WO years ago this spring was gasoline lamps have been set up on distinguished as the period of the farm of W. A. Johnson, two miles affliction to farmers with the north of Lancaster, and these are white grub. The pest was not univer- lighted each evening. They are strong sal over the northern states, but cov-lamps-about 100 candle power. Each ering large areas the losses were hangs immediately over a large pan heavy by reason of the ravages of this of water—the pan is as large as a dishpan, and contains about four

On warm nights great numbers of were in southern Wisconsin, in the On warm nights great numbers of dairying sections. Here pastures were the bugs are drawn to these lamps killed, fields of sprouting corn turned and a large percentage of them are yellow and died, and later in the sea- drowned. These 16 lamps are set at son potato crops were damaged as different points on an 80-acre tract. much as 50 per cent. Entire counties There are great numbers of the bugs were scourged; in some cases the in that vicinity, as is evidenced by areas that were not afflicted were the almost entire destruction of the foliage on cottonwood trees, a variety This set scientists at work, for it of leaves of which the bugs seem to was realized that if the pests were not be fond. Later on we shall give more

### SINCE FATHER WENT AWAY.

BY MILDRED M. NORTH.

of progress. The foreigners whose June bug in its three-year cycle. This There's an emptiness that's every-We look and listen for him once again,

ow the plow.

the lane.

It seemed impossible to reach the Sometimes I half forget he's gone in fancy I recall
The one through all my life so kind

miss him more and more,
I yearn with aching heart his face to see.

one shovel on an ordinary corn culti- into the ground and deposits his eggs. Robins and the bluebirds return with

went away.

ones, a balm for every pain, There's strength for every burden

and a help for every trial
But how we miss him since he went
away!

We miss his step at evening when the long day's work is done, miss his voice at morning in

the prayer,
Each corner of the dear old farm
speaks silently of him,
We miss him, O, we miss him,
everywhere!

Seems as if the Springtime had lost its sunny weather, It seems as if the robins sing less

gay,
But still I will be thankful we were
so long together
Although it's very lonely since father went away.

### How Unselfish Service Won a Double Victory. By CHARLES N. SINNETT.

der ideal conditions, but in a new to the last." town like Bingham where the people new church building. He had expect the eyes of men upon them.

try to see the old soldier.

preparations had been made for hold- man like the rest of you, and-" ing Memorial Day services. Mr. Stanthe program. The details of the ser- rahs, and shouts, "We'll give!" vices had been undertaken by Rever- . When silence had in a measure been church society in the little town. Not have the chance to make this a most nolds to whom he was engaged.

On the day of the exercises families in every good work." from everywhere for miles around turned out to pay tribute to the old much more out of his full heart, but the Reverend Martyr occupied seats let us also begin to build the church on the platform. The young mission- today." ary looked as if he thought all his ley lead us in prayer?"

There was no immediate response the throng in grateful spirit. as the mayor of Harvey sat down. Mr. Martyr was about to explain that Mr. Stanley was absent, when John Prescott hurriedly took a place in front of the stage on which the mayor and the other prominent people were

"The roll has called for Mr. Stanley," he said. "I am not much gifted This many a by-gone day. at praying, nor could I ever hope to Oh, long ago, ere I had opened eyes at praying, nor could I ever hope to Oh, long ago, ere I had opened eyes. Upon this world his journeyings all the place of such a man as he is. fill the place of such a man as he is. But as a soldier who took part in the battle of Gettysburg, and many others that I ought to respond when the name of Norman Stanley is called. For the last four days he has spent nearly every moment with the bravest soldier living in our township, Horace Gray, on his claim eight miles from town. As Mr. Gray stood firm and true by my side on so many bathand true by my si of our nation's great struggles, I feel tle fields, so this young man, the son So I, who hold you dearer than my of another brave soldier, is standing by his bedside. Before we leave this

THE Reverend Norman Stanley re- place our comrade may meet his God, turned to the parsonage discour- in whom he trusts. He urged the aged. Soliciting funds for phil- minister to come here, but he could anthropic purposes is a hard task un- not move him; he will stand by him

John Prescott paused to wipe away have many investments they are anx- his tears which were falling fast. ious to make when they have the nec- Then, in the breathless hush which essary money, the work is doubly lay on the great concourse of people difficult. Out of seventeen men called before him, he went on: "Some men upon, \$110 was subscribed toward the try to do great things to keep ed that these seventeen men would men as Norman Stanley, by giving be sponsor for one-half the \$1,500 re- their lives for the sake of our nation's heroes, think not of the world's "Here is some chicken broth. Mr. applause. They will serve God and Matthews called just after noon and His soldiers. And on a day like this presented us with a fine fowl, neatly it is right for us to crown such men dressed. He said Mr. Gray, the old as the heroes they are. This young soldier, was very ill out on his ranch minister of ours has worked hard to and that he would like to have you build a church here. Fourteen huncall." These words from Mrs. Wil- dred dollars is lacking of that sum. liams, with whom the minister lived, I hold in my hand two hundred dollars caused the latter to forget his trou- that have been given me for this purbles, to hastily eat his evening meal pose at the slight mention of this and begin his long ride into the coun- watchful care over comrade Horace Gray. I pledge one hundred more, It was the last week of May and though I am only a struggling towns-

"Hear, hear!" rose from every part ley had consented to participate in of the vast crowd, mingled with hur-

end Martyr, who had recently come commanded by the old soldier he from somewhere, to organize another said: "One thing more before you only had the pronounced tendency of sacred Memorial Day by your gifts. the latter to get his work before the Our minister, Normal Stanley, has put public proven something of a barrier off his marriage day for the sake of to the building plans of Reverend having this church built, and also Stanley, but persistent attention to that he might be with this dying comlovely Miss Reynolds, a young lady of rade of mine. I move you, sirs, that rare talents, was causing the gossips we raise enough money to build for to declare that the new man would this man a good parsonage that he not only destroy the professional am- may know that we never want a pabitions of Mr. Stanley, but would also triot like him to leave us. You know win from him the love of Miss Rey- well the noble woman whom he loves, and that she is as ready as he to help

John Prescott would have spoken soldiers. The mayor of the town pre- the mayor rose and said, in the deep sided. Several other officials, promi- enthusiasm which the old soldier had nent business and professional men, imparted to every one of his listen-Miss Reynolds, who was to sing, and ers: "Let us do these things. And

The cheers rose mightily to the conquests were to be made complete clear May sky. Scores of men stood that day. He sat close by Miss Rey- up to commend this work. Others nolds and from his seat watched the shouted their gifts. In and out among rapidly gathering throngs with great the happy people moved men and eagerness. When at last the people women who added to their own gifts had been seated and the old soldiers the gifts and pledges of hundreds of filed in and took their places, the willing hands. As soon as some gave mayor arose and said: "This is a their donations they started towards great occasion of which we are justly the lot set apart for the church, or proud. No one can commend too for teams and the well-filled lumber highly the work of the Reverend Mr. yards. Two or three times the Rev-Martyr. He has graciously asked the erend Mr. Martyr tried to turn the other clergyman of the town, Mr. strong current of patriotic thought Stanley, to open these exercises with and remind the people how much time prayer, and also to speak of the great he had spent in preparing his oration. memories which cluster around this But he quickly saw that this was of sacred day." Will the Reverend Stan- no use, and he gave his gift with the others, and tried to appear as one of

### A MEMORIAL GIFT.

BY L. M. THORNTON.

Because I love you well, oh Sweetheart mine, I weave a wreath of bay,

For one who sleeps beneath a spread-ing pine

were o'er But one, perchance, who loved him, sorrow-wise Wept at the knowing he would come

In this place crown the dead I never

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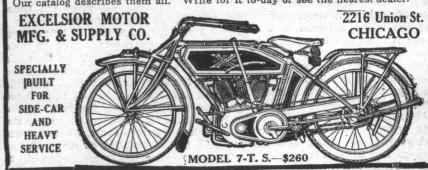
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# In What Spirit Do You Work?

stopped for no apparent cause? Ev- to a hungry man than any aria. Our work table over which we bend. erything was all right with the works work, the homely work of the houseto move. When weights, hands and praise, according to the spirit in which motto. dial demanded the reason the pendulum announced that he had been figuring up just how many times he would have to swing in the next 50 years and the thought tired him so he couldn't go on. Already he had been swinging back and forth a half century and wasn't a bit tired, but the thought that he would have to swing a few million times more in the should own an herb garden. The ragon, not a favorite with those havnext 50 years disheartened him so country gentlewoman should be es-ing only a small garden; \*thyme, a that he simply refused to budge. The pecially in favor of an old-fashioned broad-leaved, English, wise old face, which had been look- garden of this kind, for a bit of the scented herb used for ing out upon the world and forming right herb changes the whole flavor French thyme, for seasoning; \*wormsane conclusions as to life, hereupon of what might otherwise have been wood, bitter medicinal. called to the pendulum's mind the rather a flat meat or soup dish. fact that he would only have to make one oscillation at a time, and asked the popular choice with gardeners for tired, agreed to keep on swinging un- the farm will not care to grow all of fulness: Summer savory, chive, lavthe even tenor of their way.

struck? There were so many oscilla- without the expenditure of much time I should have if I had to plant them you decide on let it contain some of tions ahead for today and tomorrow or work. About half of the herbs are in several plots, each no larger than your best recipes in which you make and all the unknown tomorrows that perennial and the work in the begin- a handkerchief, for they make all the the mere thought of them shriveled ning will do for many years with a difference in the world in the palatathe weary housewife up and left her weak and helpless. Breakfast to get, ers each year. children to hurry off to school, rooms to tidy, meals to cook, washing, baking, mending, spring sewing, housecleaning, gardening, chickens, you know all the rest that space forbids me to mention. And it settles down around you in the morning and leers at you and nags you to come on and that you've only to do one thing at a time, and that "according to thy days, so shall thy strength be?" I know I do, in spite of all the good advice I courageously write for others. Women thin out the rows. are prone to over-estimate the importance of their own work, and to feel favorites of the housewife: that the whole universe is going to larger vision.

friend.

task as it comes, making of it an act winter use, cut them on a dry day, O you remember that story in not be able to sing divinely, but the into irritable shrews, who rush fran- dry or do as our grandmothers did, our old fourth readers about song of a steaming kettle on our clean tically about from morning until night tie them in loose bunches and hang the old clock which suddenly shining stove is much more alluring with never a thought higher than the them up in an airy sunny attic. If

but the pendulum absolutely refused keeper, may be to us drudgery or thankfully, let this be your working tion of air they are apt to mildew and DEBORAH.

### A Herb Garden for the Farm Home. By MANTHEI HOWE.

There are about 30 herbs that are perennials. little attention in the way of fertiliz- bility of food.

when at maturity.

May in the temperate zone is about growing it. right. Make shallow drills about a the plants are up two or three inches

The following list gives the usual

Anise, for garnishing and flavoring; smash if the thing in which they are \*balm, lemon scented, used in mak- please), a few sprigs of this herb and interested does not go through ac- ing a tea; sweet basil, for flavoring pole beans in a brine. These delicording to schedule. Part of it is due soup; bene, used as a medicine; bor- ciously flavored beans are then cookto nerves, but a still larger part to age, for bees; caraway, used in breads ed with fresh pork and boiled pota- 1 thread make 6 d s, 1 p, 2 d s, 1 p, 2 d the fact that we fail to catch the and cookies; castor oil bean, used toes. It makes a meal that is an ap-After all, life is something more merely as an ornamental plant for the roast dinner. A sprig of the savory Work is, of course, a garden; \*catnip, has a medicinal use in soup, pot roast, stewed or boiled highly necessary thing, and most of and is the favorite of cats; chamo- vegetables gives a flavor to be obtainus can't live without it in some form. mile, recalls the chamomile tea of our ed in no other way. And if you once 1 p, 6 d s, close ring. With both But the spirit in which we work is of grandmothers; \*chive, mild onion acquire the liking for herb flavors in more importance than the task we do. flavor; coriander, seeds sweet smell the food you will not care to go back If we look upon our work simply as a ing, used in cooking; cumin, for pig. to the old savorless recipes. disagreeable something which must eons; dill, used in pickles; \*sweet be gotten out of the way, something fennel, the leaves are liked in sauces; of thyme and sage as flavorings. to be sighed over and hated, then it horehound, the name suggests the old-becomes to us a tyrant. But if we fashioned remedy for "colds;" \*laven- useful in the ordinary acceptance of go to it with the idea that it is a gift der, the most delightful and fragrant the word. It is not used in food but to be enjoyed it becomes our best of herbs used as a scent; \*pennyroy- it is nevertheless one of the most al, medicinal; \*peppermint, one of the worth-while herbs in the garden. Not all of us can paint a beautiful well known flavorings; \*rosemary, a When growing it is beautiful; and picture, but with the aid of a scrub seasoning; \*rue, supposed to be use- dried, its clean and wholesome scent threads make 7 d s, 1 p, 7 d s; then brush, scouring powder, hot water and ful for roup in fowls (not a pleasant makes a joy of a trip to the linen with one thread proceed with another soap we can make a picture of our smelling herb); saffron, a flavor; drawer. It requires somewhat more clover leaf joined to the first as illusworkshop, the kitchen, and get as \*sage, one of the best liked flavorings shade than the other herbs and since trated. To insure having both rows much enjoyment out of wielding the for meats, sausage and poultry; \*sum- it is not quite so hardy it should have the same side out when finished, work scrub brush as a half-starved, garret mer and winter savory, to be used in a light covering during the winter back to beginning instead of beginpainter does from making the daubs soups, meat and vegetables; \*sweet months. he has hard work to sell. We may marjoram, leaves are used for flavor- To get the best results with your row.-L. S. G.

EVERY woman who likes good ing; \*tansy, used medicinally, has an cooking and prides herself on odor that is not liked by many; spearpleasantly seasoning;

The herbs marked with a \* are

If I might choose but five herbs for him to try one and see if it tired him. use as scents, flavorings and as medi- my garden I should take the follow-The pendulum tried it, and not being cines. But of course the woman on ing named in the order of their usetil he was, whereupon things resumed these varieties. There are some, how- ender, sage and thyme. Not being as ever, that she will not want to do fond of sage as many people are, I I wonder how many housekeepers without. One consolation for the busy should even be willing to get along got up this morning feeling exactly housewife is the fact that an altogeth- with just the first three if garden satisfactory garden is possible space was at a premium. But those

Many of these herbs may be plant- freshly cut and not dried, as are most ed as edgings to borders or may be of the others. It is a most appetizing half-dozen of these a gift that will grown beside the paths or walks. Per- addition to salads if one likes an on- make the city woman rise up and sonally I like a bed given over entire- ion flavor. It can be grown in the call you blessed. ly to the herbs. They are thus the window garden in the winter and more easily gathered and cared for when served finely cut, in cabbage, Such a garden requires a rich, well- gives a tang with none of the unworked soil. The seeds are to be pleasant feature of minced onion. It the green of the herb and the red of get rid of it. You forget, don't you, sown in the spring, the latter half of is decidedly worth any extra effort in its wrapper will make a gift in the

Summer savory is the herb that, of foot apart and sow the seeds. When all others, I should not like to do of other ideas that are adapted to without. I depend on the dried herb your especial needs, but if you are to all through the winter months, and with its help ring pleasing changes mas you must prepare your garden on the beef and pork dishes. The and sow the seeds now. Germans put up (or down, if you medicinally and very frequently grown preciated change from the usual pot-

Everyone is familiar with the use

we approach it. We can enjoy each herbs that you intend to keep for of worship, or we can let it turn us and either spread out on a paper to they do not dry quickly and are not One task at a time, and that done placed so as to allow a free circula-

There is a paradoxical saying that the best time to prepare for Christmas is the day after. The carefully planned herb garden will furnish suggestions and material for gifts to be made by the generous country housewife. Here are just a few of the presents that the city woman would apskill in the housewifely arts, mint, another well known flavor; tar- preciate more than anything that you December:

A gay cretonne work bag containing lavender for the dresser drawers. Cretonne or silk pillows scented with lavender. Cretonne bag to protect the best waist or dress, with little bags of lavender sewn around the top of the hem on the inside.

A paper or cloth-covered box divided into three compartments containing dried summer savory, sage and thyme or sweet basil. With this gift you might very well send a tiny cookbook. It may be no more than an envelope with the slips of paper for the various dishes, but whatever form

The small glasses used for peanut butter might be used to hold the herbs Chive, of course, is best when used and a Christmas sticker and a gay label on each, would make three or a

If it has not far to go you might even send a clump of chive from potato, lettuce, or tomato salad, it your kitchen garden. If you wrap a cheery red paper about the plant pot, true Christmas colors.

> This has probably suggested dozens have these herbs to use next Christ-

### CLOVER LEAF INSERTION.

With both threads make 7 ds; with s, 1 p, 4 d s, draw up as closely as possible, make 4 d s and join in 3rd picot of 1 st loop, 2 d s, 1 p, 4 d s, close ring; 4 d s join to last p, 2 d s, 1 p, 2 d s,



ning at first end to do the second row

# Poultry.

THE COST OF DESTRUCTIVE HAWKS.

When we see a large-sized hawk soaring above, we seldom realize how many dozen, or perhaps hundreds, of small or partly grown chickens it has carried away, which means a "dead loss' to the farmer or poultry raiser, of \$5 to \$10 annually.

Since I have been upon a farm I am sure that we have lost this amount of chickens each season by the pesky hawks, especially here, in Michigan, where there are so many shade trees for them to hide and nest in.

Hawks Cause Great Loss.

This last season we had pretty good luck with our chickens and did not lose many in this manner, for the fact that a neighbor swore vengeance on these destructive birds, killing 40 or 50 old and young ones which were carrying off all the chickens around here. For this reason our loss was the smallest we ever have had and we sold \$80 worth of young fowls.

Figuring on a basis that each farmer's loss is \$5 per season from hawks and owls, and with each township having 280 farms of 80 acres each, it will mean \$1,400 loss to each township, and about \$28,000 to each coun-When you come to figure that Michigan has 40 counties or more, that are thickly settled, the loss in are good. this state is enormous and will foot that is a useless dead loss to farmers little chickens would be left unharm- only a limited run for his flock. ed, to grow and be beneficial for our thanksgiving.

### THE CHICKEN HAWK.

thing in the shape of a hawk that is mental, but no better for the chickens flying within sight of a poultry yard than the other. The kale is genera chicken hawk. We immediately ally sown in garden rows, and cultiget a gun and pop it to them, killing vated like any garden crop, and the a friend instead of an enemy. It is lower leaves are picked or cut off and not, as many think, the large soaring thrown to the hens, who are very hawks which cause the damage, but fond of it. the small restless kind.

Of the half dozen hawks called chicken hawks, only two are of any the chickens can never get too much serious consequence. These are the is Swiss chard. The young chicks es-Sharp-shinned hawk and the Cooper's pecially are wild for the tender leaves, hawk. The Sharp-shinned is sometimes called the Sparrow hawk, but the family is fond of greens on the this name is also applied to the little table, you had better plant a large falcon, which is about the same size. patch of this, for it is delicious cook-The little falcon is a valuable bird to ed and served like spinach (and the the farmer, while the Sharp-shinned midribs like asparagus), so the chicks hawk is very destructive to small are likely to be deprived of their fair chickens.

the Cooper's hawk is larger and heav- out instead. ier boned than the Sharp-shinned and Essex rape is the third variety of like the buzzard hawks do.

insects, mice and other small mammals.

These two species are the only ones which may legally be killed at any time in this state. The law seems to be a good one because most of our other hawks are highly beneficial.

The Cooper's hawk is probably the most common of the two and is the common chicken hawk of most farmers. It is found here at all seasons of the year, except probably, the two or three coldest months, while the Sharp-shinned hawk is one which migrates.

Among the other hawks which are sometimes called chicken hawks, are Red Tail and Red Shoulder hawks. The Red Tail hawk occasionally gets bad habits and attacks poultry, but such occurrences are rare, as their favorite food is mice, squirrels, rabbits, etc. When it attacks poultry like the others, it makes successive visits. The Red Shouldered hawk is called the Hen hawk on account of its appearance, being similar to the chicken hawks. However, it is a friendly hawk as it never attacks the poultry, its favorite food being tree squirrels.

### MORE THINGS TO PLANT FOR THE POULTRY.

In the issue of the Michigan Farmer for May 9, 1914, was an excellent article entitled, "Things to Plant for the Poultry." The following notes are in the nature of a supplement to Mr. Chesley's suggestions, all of which

Here in California, where we have up to over a million dollars annually had a chicken ranch, we have learned of several things which are fine to and poultry producers. This great grow for the benefit of the chickens, loss, with many others, helps to create either young or full-grown. Here, of the higher cost of living and is a use- course, the long, dry summers make less burden on the whole country. If it especially necessary to grow green each state would provide a suitable food if the hens are to be kept laying bounty of 50 cents for old and 25 and the growing stock to be put in cents for young, on this destructive good condition for their future work. class of birds, it would be but a few But the same method could well be years before they would be nearly all pursued in any part of the country destroyed and the helpless, innocent where the owner of the chickens has

Chickens Fond of Kale.

One thing that is widely grown in Washtenaw Co. B. F. WASHBURNE. California on purpose for chicken greens is kale (catalogued also as borecole). The variety chiefly used is the Jersey kale, a smooth-leaved The name chicken hawk covers a variety growing three or four feet tall. multitude of hawks, harmless and Sometimes the curly variety (the harmful. We are liable to call any- Scotch), is used, which is very orna-

Swiss Chard Especially Liked.

Another kind of greens of which preferring it even to lettuce, and if share. This also can be used by cut-The Two Most Destructive Hawks. ting off the large outer leaves, and The Cooper's and the Sharp-shinned letting the others grow, though it nevsomewhat similar, though er gets tall like the kale, but spreads

the end of its tail is rounded instead chicken greens that I have in mind. of square, as in the case of the Sharp- It would be a good seed to sow in the shinned hawk. Both of these birds yard method recommended by Mr. are very restless, but not very noisy. Chesley. We sowed it mixed with They fly swiftly and quietly from wheat, broadcast, and when it was place to place looking for their prey about a foot high turned the chickens instead of perching and wheeling aloft in and let them eat it to suit themselves. As it likes cool weather, gov-Which Hawks May be Legally Killed? ern your time for sowing accordingly. They come swiftly down upon their Both the other greens mentioned are prey, and when they once visit a poul- sometimes grown in yards for the try yard they become frequent visitors chickens to help themselves, but they until they are killed. Besides preying never give them a chance to grow upon chickens they take small birds, very large. Edith G. Hawkes.



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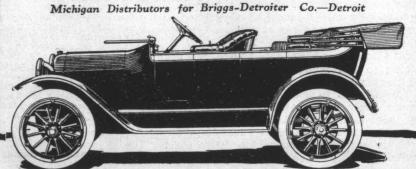
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L. ing strain. Birds of quality & size. Eggs \$1.0) per 13.

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EGGS FOR HATCHING—Buff Orpington, \$1 per 15 \$2.50 per 45; \$5 per 100 MRS. CALVIN FULLER, R. No. 2, Bancroft, Mich

S. C. B. Minorca Eggs \$1.50 and \$2.50 for setting of 15. A few choice fall boars. Satisfaction guaranteed. R. W. Mills, Saline, Mich. S. C. White Leghorns—bred for size, shape, vigor, experience breeding Leghorns. Hatching eggs 34 per 100. Day old chicks \$10, after June 15 \$9 per 100. A. O. HOWARD, R. R. No. 4, Tecumseh, Mich.

SILVER, White and Golden Wyandottes. Eggs from Whites \$1.50 per 15, \$2.50 per 30. Silvers & Goldens at catalog prices. Browning's Wyandotte Farm, Portland, Michigan,

White Wyandottes—Eggs from best pens \$2 per 15; \$6 per 15. David Ray, 202 Forest Ave., Ypsilanti, Mich.

# Fox and Wolf Hounds



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### Knowledge of Resources Helps in Marketing.

WIDE knowledge of crop conditions is the first essential to invaluable knowledge on the progress in different sections. To aid sequently speaking, trading in this educational campaign there also upon supply and demand, and will be given in this journal in contract to practically the same year nection with the state and federal nts to practically the same year year, (allowing for the increase pullation), a careful survey of the ern states, general reviews of the conwhat prices should be. If the to week.

Indice is a nice lot of lambs, which care doing well. There is an unusually large acreage of oats planted, are doing well. There is an unusually large acreage of oats planted, and they are looking fine. Farmers on they are looking fine. Farmers are to wet of such they are looking fine. Farmers are to wet and they are looking fine. Farmers on they are looking fine. Farmers are in they are looking fine. Farmers are to wet of own they are looking fine. Farmers are to wet are doing well. There is an unusually large acreage of oats planted, and they are looking fine. Farmers are to wet are doing well. There is an unusually large acreage of oats planted, and they are looking fine. Farmers or planted, as the ground has been to week to plow. Meadows are in chards and berries are in blossom, fine condition, and wheat and rye are looking fine. Farmers are to week are given they are looking fine. Farmers are to week their doing well. There is an unusually large acreage of oats planted, as the ground has been they are looking fine. Farmers are to week are just starting to plant corn. Or the weather is an unusually large acreage of oats planted, and they are looking fine. Farmers are to week their doing well they are looking fine. Farmers are to week their doing well they are looking fine. Farmers are just starting to plant corn. Or the weather is an unusually large acreage of oats planted, and they are looking fine. Farmers are in blossom, fine condition, and wheat and rye are looking fine. Farmers are in blossom, fine cond depends upon supply and demand, and will be given in this journal in consince the demand for staple products nection with the state and federal amounts to practically the same year crop reports and the hundreds of letafter year, (allowing for the increase ters from farmers all over the northof population), a careful survey of the ern states, general reviews of the consupply gives one rather definite ideas dition of important crops from week as to what prices should be. If the to week. crop is large over the entire country, then it is expected that prices will be lower, and on the other hand, if the

with grains grown here. Through tain hours.

hold his supplies until a later date. If the crop of pigs is small a producer is more likely to make shoats into heavy hogs than he would if the coming supply was reported to be unusually large and feed promised to be

So the farmer should be urged to make a careful study of conditions, not simply at the moment of selling, promises to be above normal, indeed, the state of the crop may be very low, even though it is improved over what it was a month earlier. By attention to many reports at different periods of the growing season, one is quite certain to understand what "an improvement in crop conditions" signifies. So it is important that the farmer should study from now on to acquaint himself with the status of crops throughout the country that he may be better prepared to talk to the buyer when the time to sell is here.

There are governly sources of infor-

which the letters are posted. These message direct from the farm are invaluable. They are written by men who understand crops and are able to judge them. They come every week and are full of news that can be readily interpreted by farmers themselves. The enlarged crop and market note service instituted by the Michigan Farmer within the past year will go far in bringing its readers to a full knowledge of crop conditions in those states competing with Michigan.

There are several sources of information published. The different states and the federal department of agriculture send out monthly reports on crop conditions. These are comprehensive and dependable. They will form a group hasis for a thorough understandgood basis for a thorough understanding of prospects. Co-operative societies frequently issue information on those crops in which they are particularly interested. These should be sought. Then the farmer's own paper brings to him letters from farmers themselves, stating just how things look in the particular localities from and spring grains are making little look in the particular localities from

We urge farmers, therefore, to take

crop.

shiawassee Co.—wheat and rye are looking fine, and meadows and pastures are starting to grow after the heavy frosts of last week. About 75 per cent of the pig crop was lost. There is a nice lot of lambs, which are doing well. There is an unusually large exercise of costs.

tle below the average. There are not many small pigs. Feeders are turn-ing off the stock at a fair profit. Some silos are being built. Fruit is rather slow in developing on account of the cool spring, but no damage is apparent. The bean acreage will be smaller than last year. Timothy hay \$12@13; wheat 92c; oats 36c; beans \$2; barley \$1.15 per cwt; wool \$21@24c; butter 24c; eggs 18c.

New York.

Niagara Co.—At last fine weather has reached us and all are busy plowing for oats and potatoes and working orchards. All the lime and sulphur spraying is done. Fine prospect for apples, pears, cherries, plums and prunes, but almost none for peaches, which have winter-killed. Little damage was done to trees by mice and rabbits. On account of slump in nursery stock last year more orchards sery stock last year more orchards are being set out this year than last, but nothing to the number set in previous years. Wheat, rye, meadows but nothing to the number set in previous years. Wheat, rye, meadows and pastures are in fine shape. Most of the stock out to pasture now. There are very few sheep here and wool is low, 16@17c. Farmers keep from one to five hogs; hogs and calves 8@9c; eggs 21c; butter 20@21c; wheat \$1; corn 75c; oats 45c; rye 65c; cloverseed \$8@9; alsike \$10; bran \$26 per ton; corn meal \$28.50; cracked corn \$29.

many truck gardens have been planted here."

Muskegon plans to establish a city market this year and Henry Sixma, a farmer of that county, gave the farmer's viewpoint in a paper read at a recent meeting of the Muskegon County Horticultural Society. He said in part: "The city market will be a benefit to the farmer and the consumer alike. The only obstacle the farmer would meet would be the organized grocery element and here the farmer is lame, for his is the only occupation where organization does not seem to work. It appears to me that the l6c butter 20c; corn 65c; wheat 89c;

done than usual. Local prices: Eggs 16c butter 20c; corn 65c; wheat 89c; hogs \$8.25; milch cows \$60.

Highland Co.—Sheep and lambs are plentiful. Lambs 6@6½c per pound; wool 23c. The pig crop is fair. Farmers are beginning to plant corn. The wheat and rye are looking good, and meadows and pastures are in good condition. Fruit prospects are good, but there is no spraying done. A great many peach and apple trees have died. Eggs 17c; butter 20@25c; potatoes \$1@1.25 per bu; corn 80c per bu; hay \$12; hogs \$8.

Coshocton Co.—The last "week of April and the first week of May have

Coshocton Co.—The last week of April and the first week of May have been rather showery, and oat sowing has been delayed, though a large acreage was sown. The average acreage of corn will be put in, and most of it will be sown within the next two weeks. New meadows and pastures are in excellent condition and growing nicely and most of the

crop. Spraying is carried on extensively. Butter-fat 24½c; eggs 17c; not be sown owing to the late season. Some corn ground is plowed, but very little planted. Prospects for wheat looking fine, and meadows and pastures are starting to grow after the heavy frosts of last week. About 75 per cent of the pig crop was lost. There is a nice lot of lambs, which are doing well. There is an unusurease. Apple trees are in bloom. Butter 20c; eggs 16c; wool 20c per lb. Carroll Co.—Oats are coming up

Jay Co.—The pig and lamb crops are below normal in this section. The wool clip is of fair quality, and the price offered is 18c. The oats planted look fine, in spite of two weeks of very wet weather, and the acreage put in is more than last year. Some corn is planted, and under favorable conditions the remainder will be in within a week. Wheat is in excellent shape; rye is heading out. Meadows are coming along fine, and show a bumper hay crop. There were several slight frosts in the last two weeks, but the fruit crop does not seem to be damaged. The orchards have had two sprayings. There was much damage to shrubs and fruit trees by mice. The peach crop will be a failure, as The peach crop will be a failure, as the trees show no signs of life. Eggs 18c; butter 25c; hogs \$8.10; cattle \$6@7.50; wheat 96c; oats 36c; corn \$1 per cwt.

Wisconsin.

Polk Co.—Seeding is just finished and corn ground is being prepared. The average amount of spring grains is less than in former years, more corn being planted. All meadows are looking fine, and pastures are good. A number of apple and plum trees have been set out. Eggs 15@17c; butter-fat 29c; oats 33c; barley 50c; potatoes 40c.

Pierce Co.—There has been an increase of nearly 25 per cent in the number of pigs over that of last year, and hogs are healthy. The lamb crop is normal. Several farmers have disposed of flocks, while a few have bought anew. Blood stock is the aim. No wool has been sold, as shearing has not been finished, and it is generally pooled. Many head of stock will soon be put out on pasture. The has not been infished, and it is generally pooled. Many head of stock will soon be put out on pasture. The acreage of oats and barley is somewhat above the average. The acreage of corn and alfalfa increases each year. Apples are not an important crop, and little spraying is done. The prospects for small fruits are good. Eggs 16c; butter-fat 26c; butter 25c; potatoes 48c. There is no grain to be sold, as it is fed out, but market prices are: Wheat 80c; oats 32c; barley 48c; rye 50c; flax 85c.

Missouri. St. Louis Co.—There are more young pigs this year than last spring. The acreage of wheat and rye is about the same as last year; more oats are sown, and about 10 per cent more corn has been planted, some of the latter being eight inches high. Some rye is heading out, and there are prospects for a good yield. The recent light frosts in the lowlands apparently did no damage to fruit, which promises a fine crop. There is not much spraying done. The price of eggs is 22c.

of eggs is 22c.
Phelps Co.—Wheat, rye, meadows and is plowed. Fastures are in bloom, and indications are for a good condition. Eggs 17c; buttle-fat 23½c at creameries. Horses are moving well at fair prices.

Emmet Co.—The season is cold and backward, trees are not yet in leaf, and spring grains are making little growth. Farm work is progressing fairly well. Eggs 18c; butter 28c; butter and pastures are looking fine and this year promises to be one of the largest

### CITY MARKETS IN MICHIGAN.

lower, and on the other hand, if the yield and acreage are small the price is quite surely to be above normal.

Dealers in grains spend much money to get accurate information on the growing crops. They have local representatives throughout the entire grain producing section to keep them informed on any changes in the prospects. They hire experts who are sent out to study some uncertain factor that means much to future marketing. Then, too, they maintain agents in those foreign countries that produce grain to come in competition with grains grown here. Through these and other agencies business.

Jackson expects to have its new market building completed and open to the public by July 1. Stalls for the temporary market have been enclosed and will open soon. The new building will be of steel construction building will be of steel construction to the public by July 1. Stalls for the temporary market have been enclosed and will open soon. The new building will be of steel construction to the public by July 1. Stalls for the temporary market have been enclosed and will open soon. The new building will be of steel construction building will be of steel construction to the temporary market have been enclosed and will open soon. The new building will be of steel construction to the temporary market have been enclosed and will open soon. The new building will be of steel construction to the temporary market have been enclosed and will open soon. The new building will be of steel construction to the public by July 1. Stalls for the temporary market have been enclosed and will open soon. The new building will be of steel construction to the public by July 1. Stalls for the temporary market have been enclosed and will open soon. The new building will be of steel construction to the public by July 1. Stalls for the temporary market building completed and open soon. The new building completed and open s

these and other agencies, business men are able to have the best information on the outlook of the different crops, and on this information they base their decisions to buy or sell.

But such information is equally helpful to the farmer. It aids him in deciding to sell immediately, or to hold his supplies until a later date. If

not simply at the moment of selling, is lame, for his is the only occupation where organization does not seem to work. It appears to me that the farmer ought to see for himself that gle crop report is misleading. "An he is the goat quite often. I have improvement in crop conditions" does not necessarily mean that the crop not necessarily mean that the crop cer, thus making two profits between requirements to he share proposed indeed and only occupation. producer and consumer. The farmer's task lies not in raising more produce but in making a fair profit on the stuff he does raise." A. GRIFFIN.

### Crop and Market Notes.

# Farmers' Clubs

CLUB DISCUSSIONS.

CLUB DISCUSSIONS.

Timely Tips on "Meals for Threshers."—"Homewood" was the place of meeting for the Napoleon Farmers' Club on Saturday, May 16, and Mr. and Mrs. Lud Hastings welcomed 40 members and visitors to their pleasant home. Owing to illness, the president and vice-president were absent and L. G. Palmer was called to the chair. The usual opening exercises and business session were held, after which the program was taken up. The first number was roll call, the response being Longfellow quotations. Mrs. Grace Merriman read an excellent paper on "Meals for Threshers." She said she found this a difficult subject to write upon just in the midst of house cleaning; that she thought when the plan of each thresher furnishing his own gang of men was instituted, that the work would be easier, but instead found it harder, for the whole gang were on hand for breakfast, the hardest meal to get. "The telephone in the house is a great help, for we can usually find out just when they will arrive, and are generally prepared, but there are times when their stay is prolonged by breakdowns, rains, etc., when we hardly know how to manage. A good garden is almost indispensable in the preparation of meals for a lot of men: such a variety of vegetables may be had just at threshing time. Of course, there is nothing better than pork and beans. The meat question is the hardest to solve. It used to be the custom at our place to kill a sheep, and the threshers always expected mutton for meals. There are so many ways of preparing left-over meat that with a very small amount one may prepare a good meal. For dessert, pies are more easily served, although there are numerous puddings which may be made early in the morning and are liked by all. Prepare potatoes and other vegetables may he his custom at a paper which contained some helpful hints on the subject. The discussion was opened by Mrs. L. G. Palamer after the program was closed, after which all enjoyed the delicious supper provided by the hostess. Club adjourned to meet at "Dak Gro

with Mr. and Mrs. L. C. Palmer on Saturday afternoon, June 20.

Discuss Community Problems.—The Odessa Farmers' Club met at the home of Mrs. Lottie M. Durkee, Saturday afternoon, May 10. President Foght called the meeting to order, a song by the Club being the first number. Roll call was answered by "Men in the Public Eye." "Is Poverty and Crime Incurable?" This topic was assigned to Rev. Laity. He gave a short talk which was good, and with the discussion following went to prove that these things are curable. "Why are rural communities so indifferent toward the church, and what can be done to make the religious life more of a reality?" Mrs. Brown opened this subject very nicely with some good thoughts, and a discussion followed, which we were all better for having heard. Supper was served to 45 members. Adjourned to meet with Mr. and Mrs. David in June. This will be the last meeting before vacation and the August picnic.—Reporter.

Organize Corn Contest.—The April meeting of the Salem Farmers' Club was entertained at the town hall by Mr. and Mrs. Isaac Maxwell and son. A very enjoyable meeting was held, although the roads were muddy and the day stormy.

The May meeting of the Club was a

the day stormy.

The May meeting of the Club was a large and enthusiastic gathering at the town hall. Dinner was served to 185 guests, 115 of them being children. The meeting was largely devoted to the subject of our corn contest work, and was in charge of Robt. test work, and was in charge of Robt. Ross, chairman of the contest committee. An interesting program was given by the children of the different schools, including restriction. mittee. An interesting program was given by the children of the different schools, including recitations, an essay on corn, a corn song and a very pretty flag drill. This was followed by an address by Prof. Essery, County School Commissioner. He told the children he wanted both boys and girls to enter into this contest work. It would be a useful lesson to them during their whole life; would help them to be business men and business farmers. They would always find competition in the world—and this would make them more able to compete with men—when they grew older. A collection of \$10.75 was taken for the contest work. Next meeting of the Club to be at the home of President.—G. H. Thompson, Reporter.

# Grange.

Our Motto-"The farmer is of more consequence than the farm, and should be first improved."

### JUNE MEETINGS.

State Lecturer's Suggestions for First Meeting.

Song, "Joy Bells," in School Knap-

Recitations by two children.

Recitations by two children.
My favorite butterfly, a short paper.
Memories of childhood, two fiveminute talks by grown-ups.
My favorite bird, a short paper.
"A fresh bouquet for Flora," an exercise by children.
Song, "Whistle and Hoe," in Knapsack, with whistling accompaniment.
Some pets I have owned, a short
paper by a boy.
"A Daisy Exercise," by children.
Closing song, "Onward Christian
Soldiers."

Refreshments in charge of Woman's Work Committee.
Flora assists lecturer in this pro-

### AMONG THE LIVE GRANGES.

Ingham County Pomona Grange met with Fitchburg Grange, Saturday, April 25. In spite of the inclement weather, a large crowd of enthusiastic Grangers were present. After doing justice to a most splendid dinner, prepared by the entertaining Grange, the following program was year, much an Grangers were present. After doing justice to a most splendid dinner, prepared by the entertaining Grange, the following program was very much enjoyed: Song, Grange Melodies; paper, "What can lthe rural people do to make themselves better and uplift the Community?" Mrs. S. Proctor; recitation, Iva Mackinder; address, "Attitude of people toward farmers' organizations," E. A. Holden; music, Fitchburg Grange; paper, "Marriage a question of cash," Mrs. Stephen Behm; recitation, Mrs. A. Lawrence; recitation, Miss Lavonda Smith; piano solo, Miss Myrtle Lawrence; reading, "My Eightieth Birthday," Mrs. A. Lawrence. Following this reading, Elmer Shotwell, in behalf of Fitchburg Grange, presented Mr. and Mrs. A. Lawrence with a beautiful rug as a token of respect and esteem to commemorate their sixty-second wedding anniversary and her eightieth birthday. Both responded in a feeling manner. Both of these people were certainly an inspiration to us all, by their pleasant personality and active part in discussions and entire program. All of four generations of this family are members of Grange, but one, and she is a Junior. Next followed a spirited impromptu debate: Resolved, that education is a greater factor in making a successful farmer than energy." Rev. F. Corbett and J. T. Barr upheld the affirmative side, while E. A. Holden and H. M. Young discussed the megative. By decision of the judges, the negative was declared the winning side. Meeting closed with a vocal duet from Fitchburg Grange.—Grace Fisher, Lecturer.

Sparta Grange did not celebrate Mother's Day or Father's Day, but

burg Grange.—Grace Fisher, Lecturer.

Sparta Grange did not celebrate Mother's Day or Father's Day, but Parents' Day, at their regular meeting, Saturday, May 16. At this meeting two candidates also received the first and second degrees. The following program was much enjoyed: Music, Mrs. Thos. Chapman; "A Philosopher Farmer," Hine M. Smith; "Where's Mother?" Mrs. R. S. Coleman; "That Thy Days May be Long," Mrs. D. A. Filkins; "Nobody Knows but Father," Mrs. S. H. Taylor; "My Boys," Mrs. H. E. Walcott. Roll call, "Some Memory of Father or Mother." "Being Fussy at Meals," Mrs. J. L. Crowley; "How to Clean Feathers in Pillows;" "Making Coffee as the French Do." French Do."

Travel Talk.—About 100 attended the last regular Grange meeting at Berrien Center, and were entertained by an excellent program. Music was furnished by an orchestra consisting of the following players: Arthur Miars, violin; Kenneth Miars, piano; Chet Daugherty, clarinet. Roy Clark, of Pipestone, was a guest of the order and gave a very interesting description of his everyingees during his retion of his experiences during his re-cent orinetal trip. He exhibited many curios from the Philippines, Japan and China and his talk was thoroughly enjoyed by all.

### COMING EVENTS.

Wayne County Pomona will meet with Flat Rock Grange, on Saturday, June 6. Chas. Pike, of Wyandotte, will address the meeting.

Ingham County Pomona Grange will meet with Locke, Saturday, June 13.

### **DEADLY SCOURS**

Scientific, Tested, Safe and SURE CURE FOR 75 CENTS will send prepaid bottle to last a year. Money we will send prepaid bottle to last a year. Money refunded if it falls.
ROUGEMONT FARM REMEDIES, Detroit, Mich.

WHOLESALE FEED Ask for price list. Everything in Feed. THE BARTLETT OO., 100 Mill St., Jackson, Mich.

S. L. WYANDOTTE EGGS—From great laying strain Satisfaction guaranteed. F.E. Cowdrey, Ithaca, Mich.

### BREEDERS' DIRECTORY.

CATTLE.

# Aberdeen Angus Cattle

We have just received a wire to ship all our surplus young bulls of serviceable age to Minnesota. With grade Angus yearlings iselling at \$125.00 to \$150.00. these young bulls, closely related to five International Grand Champions, should be worth \$200 to Michigan farmers with a dozen or more grade cows. Wire, 'phone or write at one for reservation.

GEO. B. SMITH Addison and Somerset, Mich.

### 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-2 Reg. Guernsey bulls 2 and 4 years old spring show. Berkshire swine either sex.

JOHN EBELS, R. R. 10, Holland Michigan,

GUERNSEY BULL CALF, nicely marked, 3 weeks old, great grandson of Gov. Chene, \$50 takes him. AVONDALE STOCK FARM, Wayne, Michigan.

HEREFORD BULLS 2 six months old ALLEN BROS., Paw Paw, Michigan.

**HOLSTEIN BULLS AT FARMERS PRICES** Sired by one of the best bulls of America. LONG BEACH FARM, Augusta, Kalamazoo Co., Mich.

HOLSTEIN FRIESIAN CATTLE BREEDERS of high record cows. Young bulls at farmers prices. JONES & LUTZ, Oak Grove, Michigan.

**ESPANORE FARM** LANSING, MICH.

# Register'd Holsteins

Bull Calves \$50 to \$200. An absolute guarantee with each purchase. CHASE S, OSBORN, Owners, L. M. HATCH. ADAM E. FERGUSON,

\$\Phi 225\$ Buys a registered heifer 8 mo, old and reg. istered bull 7 mo. old, both \( \frac{1}{2} \) white, not not akin, B. B. REAVEY, Akron, Michigan.

psiland ford Offer bull calves, choice A R. O. breeding, \$100 and up COLE BROTHERS COMPANY, Ypsilanti, Michigan

HOLSTEIN REGISTERED HEIFERS-6 mo. old, priced to sell. Write for pedigrees and prices. NETHAWAY BROS., Burton, Michigan.

Holsteins—Il High Grade Holstein heifers from Heavy Milkers. Also Registered Bull. Price for the bunch \$100° F. O. B. J. C. BARNEY, Coldwater, Mich.

### **BIGELOW'S HOLSTEIN FARMS** Breedsville, Michigan, Breeder of high class

Registered Holsteins.

A. R. O. HOLSTEIN COWS FOR SALE. 6 very fine A. R. O. cows, bred to Johanna Concordia Champion, and Duke Ormsby Pietertje DeKol. Price \$1850. Service bulls and bull calves. Kindly write me just what you want
L. E. CONNELL, Fayette, Ohio.

For Sale—Eight choice registered Holstein yearling heifers, some are bred. Also four cows. E. A. BLACK, R. No. 6. Lakeview, Michigan.

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

A FEW CHOICE Holstein Friesian Bull Calves for Sale, A. R. O. Stock, GREGORY & BORDEN, Howell, Michigan.

Registered Holstein Bull—27 lb, dam, 31-lb, granddam, His 5 nearest dams have butter records that average 25 lbs, in 7 days, 2 years old Write for pedigree. Hobart W. Fay, Mason, Mich.

Ho'stein Friesian Cattle Herd Headed by Albina Bonte for dam and sire's dam A.R.O. at 4 yrs. butter 7 day 23,37 lbs. No stock for sale. W. B. Reader, Howell, Mich.

### "Top-Notch" Holsteins.

Choice bull calves from 1 to 7 mo, old, of fashion-able breeding and from dams with official milk and butter records for sale at reasonable prices. MoPHERSON FARMS CO., Howell, Michigan

Purebred Registered
HOLSTEIN CATTLE
The Greatest Daley P

JERSEYS—Bull calves nearly ready for service.
Sired by Jacoba's Fairy Emanon 107111.
SMITH & PARKER, Howell, Michigan.

MAPLE Lane Register of Merit Jersey Herd-Tu-berculin tested by U.S. Government. Bull calves from cows in R. of M. test. Heifer calves whose dams, grand-dams, and great grand-dams are in the Register of Merit. IRVIN FOX, Allegan, Michigan.

# Jerseys For Profit

Lillio Farmstead Jerseys
(Tuberculin tested. Guaranteed free from Tuberculosis.) Several good bulls and bull calves out of good dairy cows for sale. No females for sale at present. Satisfaction guaranteed.

COLON C. LILITE. Coopersville, Mich.

Jersey Bulls Yearling and two-year-old. Eligible to register. Splendid breeding. Price right. Address LEWIS RILEY, Metamora, Mich.

JERSEYS-Bull calves bred for produc.
tiom. Also cows and heifers.
Brockwater Farm. B. F. D. No. 7, Ann Arbor, Mich.

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

FOR SALE—14 Polled Durham & Shorthorn Bulls from 4 to 24 months old. C. CARLSON, LeRoy, Mich.

Shorthorn Bults For Sale—One roan 3-yr-old weighing a ton. Price \$250. Also 3 calves 6 mo. old, from good milking cows. M. A. BRAY, Okemos, Mich.

DAIRY BRED SHORTHORNS of best Bates strains, all sold. J. B. HUMMEL, Mason, Michigan.

FOR SALE—One Registered Shorthorn bull 13 mos, old. Write for pedigree. WM D. McMULLEN, 67 Madison St., Adrian, Michigan

SHORTHORN CATTLE W. W. KNAPP, Howell, Michigan.

### SHEEP.



### HOOS.

Durocs & Victorias A few extra Sept. Boars and bunch of Gilts for 1st of April farrow. M. T. STORY, Lowell, Mich., Citizens Phone 55.

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

BERKSHIRE—Choice fall Boars and Gilts of selection white OAK FARM, R. No. 4, Brown City, Mich.

Chester Whites—Reg. Bred Gilts—Orders taken for Bulls at Bargains. FAY B. PARHAM, Bronson, Mich.

CHESTER WHITES—The long type, prolific kind.
A nice lot of spring pigs.
MEADOW VIEW STOCK FARM, Holland, Michigan,

O, I. C'S-Spring pigs, get my price before you buy elsewhere. CLOVER LEAF STOCK FARM, R. No. 1, Monroe, Michigan.

O.I.C's Few choice, thrifty, March-April boar pigs, \$10,00, \$12,00, as to age, crated. No sows left. B. G. HILLS, Fennville, Mich.

O. I. C's. I HAVE A NICE LOT OF LAST FALL GILTS ON HAND. OTTO B. SCHULZE, One-half mile west of Depot, Nashyille, Michigan.

O. I. C.—Take orders for spring pigs. One 8 mo. fine type Jersey Bull. Price reasonable. N. H. Weber, OakView Farm, Royal Oak, Michigan.

O. I. C. Sows bred for June farrow. We are also taking orders for spring pigs. JOHN BERNER & SON. Grand Ledge, Mich. O.I.C.—Bred sows and spring pigs, large and growthy.
Pairs and trios, not akin. Write your wants.
GLENWOOD STOCK FARM, Zeeland, Mich.

0. I. C.—gilts bred for June and July farrow. Also Spring pigs, Serviceable boars all sold. I pay express. G. P. ANDREWS, Dansville, Mich.

## THIS 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, R.No. 10 Portland, Mich.

O.I. C's All sold. Would be pleased to book your order for spring pigs, C. J. THOMPSON, Rockford. Michigan.

O. I. C.—Three September Boars, four orders for spring pigs, they are extra good ones. NEWMAN'S STOCK FARM, R. No. 1, Marlette, Mich.

O. I. C. Boars six months old, spring pigs A. R. GRAHAM, FLINT, MICHIGAN.

O. I. C. Swine—May I have the pleas-order for a pair or trio, not akin, of April and May farrow, They are bred right. Satisfaction guaranteed, A. J. GORDEN, R. No. 2, Dorr, Mich.

DUROC JERSEYS-Fall gilts of the large, heavy boned type, bred for Aug. and Sept. farrow. Also spring pigs, not akin. F. J. Drodt, R. l. Monroe. Mich.

DUROCS-A good growthy fall pig immuned and bred for August farrow will make you money, Give me your order now for May shipment. Also fall boars ready for service, KOPE KON FARM, Kinderhook, Michigan.

FOR SALE DUROC JERSEYS-College Boy 138557 farrowed Sept. 7, 1911. Spring pigs after June 1, 2914. J. H. BANGHART, Lansing, Michigan

Fancy bred Duroc Jerseys—Boars & Gilts of spring & summer farrow. Good individuals at reasonable prices. John McN icoll, Station A. R4. Bay City, Mich

KORN-EL STOCK FARM now offer Duroc Jersey pig prices. E. R. CORNELL. Howell, Michigan. DUROC JERSEYS A few fall pigs of both sexes for sale.

DUROC JERSEYS—Spring pigs either sex at reasonable prices, S. C. STAHLMAN, Cherry Lawn Farm, R.2, Shepherd, Mich.

Duroc-Jerseys Spring boars from prize-winning strains. Sows all ages Brookwater Farm, R. F. D. No. 7. Ann Arbor, Mich.

FSSEX PIGS—From Michigan's oldest herd. Get Lyour order in for something good. You know the kind that comes from the Flint River Farm. You have heard of us before, E. P. OLIVER, Flint, Mich.

LARGE TYPE P. C.—Largest in Mich. Fall pigs all by the largest boar in the U. S., weight 900 lbs., 24 months old. Come and see. Expenses paid if not as represented. W. E. LIVINGSTON, Parma, Mich.

POLAND CHINAS—Both Western and Home Brides right. W. J. HAGELSHAW, Augusta, Mich.

Poland China Boar; Sows Bred, All of the Big Type.
A. A. WOOD & SON, Saline, Michigan.

Continued on page 579

# Markets.

### GRAINS AND SEEDS.

May 26, 1914.

Wheat.—In spite of the confirma-tion of the earlier reports that considerable damage is being done to the wheat crop by the Hessian fly, the trend of the market has been downward this past week. The cash demand is not quite so active and the liberal primary receipts and shipments to foreign countries favor the bears, but the chief factor in the decline was the favorable reports coming from Oklahoma and Kansas where harvesting has begun under favorable conditions, describing the ripened grain to be of good quality and liberal yields. This territory, however, is to the south of the belt most seriously damaged by the fly. One year ago the price for No. 2 red wheat was \$1.10 per bu. Quotations for the past week are: siderable damage is being done to the

	No. 2	No. 1	
	Red.	White.	July
Wednesday	991/2	99	90
Thursday	981/2	98	891/
Friday		971/4	883/
Saturday		971/2	883/
Monday		97	881/
Tuesday		97	881/
Chicago, (May		No. 2 red	98@
00 35 075/-			

shipments are forthcoming from that country. One year ago the price for No. 2 corn was 59½c per bushel. Quotations for the past week are:

	No. 2	1	No. 2
	Mixed.	Y	ellow
Wednesday	73		741/2
Thursday	73		741/
Friday	73		741/2
Saturday	73		741/
Monday			741/
Tuesday	73		741/
Chicago, (May 26)	No.	2	corn
71 %c: July 67 %c per			

71½c; July 67%c per bushel.
Oats.—This market is firm to higher. The weather during the week past has been a little too dry for the best development of the grain, while the old stock is being called upon by the usual demand. One year ago the price for standard oats was 42½c per bushel. Quotations for the past week

		No. 3
	Standard.	White.
Wednesday	441/2	44
Thursday		44
Friday		44
Saturday		431/2
Monday		44
Tuesday		44
Chicago, (May		white
oats 421/4 @ 423/4 c;		
39 % c per bushel.	are the second second second	

39%c per bushel.

Beans.—Demand has eased off a little. The local board of trade quotes immediate and prompt shipment at \$2.07; June \$2.12 per bu. Chicago reports steady prices. Pea beans, handpicked, choice, are steady at \$2.20@2.25; common \$2@2.15; red kidneys, choice \$3.25@3.35.

Rve.—This cereal is steady. No. 2

Rye.—This cereal is steady. No. 2 is quoted at 65c per bu.

\$17.50@20.50.
Chicago.—Market is steady at lower prices. Choice timothy is quoted at \$18@18.50 per ton; No. 1 \$15@16; No. 2, \$13@14.
Straw.—Steady. Rye \$8@8.50; oat straw \$7@7.50; wheat straw \$7@7.50

### DAIRY AND POULTRY PRODUCTS.

Butter.—Market is firm at unchange especial ed prices. Conditions on the market quality

new York.—Heavy receipts caused an accumulation on market and brought price down nearly 1c. The highest grade is in demand. Fresh gathered extras 22@23c; storage packed firsts 20¼@21½c; firsts 19@20c per dozen.

Green Vegetables.—Michigan asparague, 1-3 bu. box 40@60c; green onions ½ dozen small bunches 5@6c; watercress, small bbls. Michigan \$2.

Potates.—Quoted firm, with prices advanced from 2@5c. Quotations 68@70c per bu in sacks. At Chicago the market ruled strong and prices advanced 5c. Buyers are anxious and fancy stock was in demand. Receipts are light. Good Michigan round white sold for 70@80c. sold for 70@80c.

### GRAND RAPIDS.

Dairy butter is firm and higher, with 23c offered for No. 1. The egg market opens weak, with quotations at 17½@18c. Shipped-in strawberries are taking the lead in fruits, with berries from Illinois this week and southern Michigans will follow soon. The outlook now is for a big crop of berries in Michigan. First home-grown tomatoes raised under glass were oftomatoes raised under glass were offered Saturday, bringing 35c per lb. Grain prices are unchanged. Dressed hogs are bringing 10½@11c. Timothy hay is worth \$16@18.

### DETROIT EASTERN MARKET.

Although the variety of products offered Tuesday morning was small, there were many farmers present considering the season. Lettuce was offered freely, prices ranging from 75c @\$1.25 per basket. Asparagus was selling generally at 5c per bunch; onions 25@30c for three large bunches. Potatoes were offered sparingly at 90c per bushel: radishes two dozen small per bushel; radishes two dozen small bunches for 25c. No hay is coming in, and the nominal quotation is \$15 @18 per ton.

### WOOL.

Flour.—Jobbing lots in one-eighth paper sacks are selling on the Detroit market per 196 lbs. as follows. Best patent \$5.30; second \$5; straight \$4.75; spring patent \$5.10; rye flour \$4.40 per bbl.

Feed.—In 100-lb. sacks, jobbing lots are: Bran \$28; standard middlings \$32; coarse middlings \$31; cracked corn \$32; corn and oat chop \$28.50 per ton.

Hay.—Good hay scarce, with prices steady. Carlots on track at Detroit are: No. 1 timothy \$16.50@17; standard \$15.50@16; No. 2, \$14@15; light mixed \$15.50@16; No. 1 mixed \$13.50

New York.—Prices steady. No. 1 timothy \$22.50; No. 3 to standard \$15.50@20.50.

Chicago.—Market is steady at lower prices. Choice timothy and states business is now becoming more active with sales ranging from 22@ 26c, according to quality and grade. 8 The sales in Boston since January 1 are nearly three times as great as for the same period of 1913.

THE LIVE STOCK MARKETS.

May 25 1014

(Special Report of Dunning and Stevens, New York Central Stock Yards, East Buffalo, N. Y.)
Receipts of stock here today as follows: Cattle 110 cars; hogs 105 d. d.; sheep and lambs 47 d. d.; calves 1600 head

trade here today. With 105 loads on sale and 56,000 reported in Chicago, the bulk of sales reached about a dime lower than Saturday, with light weights strong to 15c lower. Trading was active and a good clearance was made. Everything sold at \$8.65 outside of roughs and stags. Best roughs quotable at \$7.25@7.50 and stags at \$5.50@6.75, as to quality.

The market was active today on handy lambs and sheep. Prices 10c higher than the close of last week on lambs; sheep steady. Choice handy clip lambs selling mostly at \$8.25@8.35. We look for steady to shade higher prices last of week with moderate receipts.

We quote: Choice clip lambs \$8.15@8.40; heavy do \$7@7.25; cull to fair do \$6.50@8; yearlings \$6.50@7.25; bucks \$3.50@4.50; handy ewes \$5.75@6; heavy ewes \$5@5.25; wethers \$6.25@6.50; cull sheep \$3.50@4.50; veals, choice to extra \$10@10.25; fair to good \$8.50@9.75; heavy calves \$5.50@7.

Chicago.

May 25, 1914.

Cattle. Hogs. Sheep.

Receipts today..21,000 56,000 21,000
Same day 1913.23,016 35,098 23,998
Last week ....41,716 107,953 88,050
Same wk 1913..40,119 133,900 84,246
With a good Monday cattle supply for these times and a limited general demand, there was an early fair trade in fat butcher stock at steady prices, but at a late hour very few steers were sold, with prospects for a rather general decline of about a dime at least. Some fat beeves at \$9 looked unchanged. Hogs were in such exceptionally big supply that prices declined 15c at once, with sales at \$8@8.35. Hogs marketed last week averaged 238 lbs., or four lbs. more than a week earlier. The sheep and lamb market was 15@25c lower, with a poor demand from all classes of buyers and choice clipped lambs bringing \$8. Swift & Co. received about ers and choice clipped lambs bringing \$8. Swift & Co. received about 3,000 Texas sheep consigned to them

ing \$8. Swift & Co. received about 3,000 Texas sheep consigned to them direct.

Cattle prices declined on Monday last week before the day was over largely 10@15c, with receipts of 21,200 head and a restricted general demand, the heavy beeves catching it the worst, for warm weather has caused these to be descriminated against, buyers favoring fat light steers, especially yearlings. Good cattle firmed up by the middle of the week, with a run of only 13,508 on Wednesday, and a meager supply for Thursday caused a small advance. On warm days the cattle drank water freely, and this was usually taken into account by buyers in making bids. The bulk of the beef steers sold during the week at \$8@9, with choice to prime heavy steers taken at \$8.90@9.30, good lots going at \$8.60 and upward, medium grade lots at \$8.30 and over and common to fair steers of light weights at \$7.40@8.25. Common to good yearlings brought \$7.85@8.55 and good to choice yearlings \$8.60@9.25, while a few head of agricultural college fed yearlings topped the market at \$9.50. Butcher lots of cows and heifers had a good sale on the basis of \$5.30@8.85 for ordinary cows to fancy yearling heifers, with sales of cutters at \$4.70@5.25, canners at \$3.50@4.65 and bulls at \$5.50@7.75. Although the rank and file of the stockers and feeders declined in value 25c because of the refusal of most buyers to follow up the late boom in prices, the choicest lots of these cattle advanced further, making the highest figures on record. Sales were made all the way from \$6.75@7.25 for the less desirable offerings up to \$8@8.85 for the better class, with sales embracing a carload of fancy letter. tle advanced further, making the highest figures on record. Sales were made all the way from \$6.75@7.25 for the less desirable offerings up to \$8@ pastures are fine. Fruit prospects are \$8.85 for the better class, with sales embracing a carload of fancy little stock steer calves that averaged 551 tates by mice. No spraying done. Stock steer calves that averaged 551 tates 60c; oats 30c. Washington. lbs. at \$8.85, 40 feeders averaging 969 lbs. at \$8.65 and 40 feeders averaging 1098 lbs. at \$8.60. The cause of the much higher prices for common beef steers than a few weeks ago was the feeder outlet. Calves were active at \$6@10.75 per 100 lbs. for rough heavy

are good. Extra creamery 25c per lb; firsts 24c; dairy 17c; packing stock 15c.

Chicago.—The demand is moderately good and the supply ample. Prices are ½c higher than last week. Extra creamery 25%c; extra firsts 24%c; direction of the continued and under, sold strong to about 15c per think we sold some stock 16c.

Elgin.—Market is firm at 25%c per lb, which is ½c higher than last week.

New York.—The market is steady and unchanged. Creamery extras 25½2 26c; seconds 22c @23c; packing stock 17@17½c.

Eggs.—Market is active at prices 1c lower than last week. Current receipts of fresh stock quoted at 18½c.

Chicago.—Market is steady, although the trading is rather slow.

The supply is ample and northern segs are preferred. Miscellaneous lots, cases included 16@18c; ordinary firsts 17%c?

New York.—Heavy receipts caused an accumulation on market and brought price down nearly 1c. The highest frade is in demand. Fresh gathered extras 22@23c; storage 20c per dozen.

Poultry.—Market is easy with offer-garded approach of the prices last of week with mode 20c per dozen.

Poultry.—Ranket is easy with offer-garded approach of the prices last of week with mode 20c per dozen.

Poultry.—Market is easy with offer-garded approach of the more prices last of week with mode 20c per dozen.

Poultry.—Market is easy with offer-garded approach and a control of last week on prices last of week with mode 20c per dozen.

Poultry.—Market is easy with offer-garded approach and last week. The market was active today on the first 24½c; firsts 18c.

We work of the market was active today on the prices last of week with mode 20c per dozen.

Poultry.—Market is easy with offer-garded approach and a control of the more prices last of week with mode 20c per dozen.

Poultry.—Market is easy with offer-garded approach and a control of the more prices last of week with mode 20c per dozen.

Poultry.—Market is easy with offer-garded approach and a control of the market was active today on the price last of the prices last of week with mode 20c per dozen.

Sheep and lambs started off last week with a moderate supply and a further advance in prices that carried prime Colorado wooled lambs to \$9.50 per 100 lbs., the bighest price prime Colorado wooled lambs to \$9.50 per 100 lbs., the highest price recorded since May, 1912. At the same time prime Colorado shorn lambs sold up to \$8.60, and everything in the live mutton line sold correspondingly high. By Wednesday killers were unwilling to operate at so high a level, and lower prices prevailed for everything offered, although values were still extremely high as compared with a few weeks ago, when supplies were much larger. Lambs have led the advances as a rule, as well as the declines, and the few spring lambs offered sold extremely well. The packers received considerable numbers of southern spring lambs consigned to them direct from Louisville. At the week's close wooled lambs brought \$9.30 for the best down to \$7.50 for common lots,

## ADDITIONAL CROP AND MARKET NOTES.

Michigan.
Isabella and Southern
Out seeding is done and Clare Co.'s.—Oat seeding is done and fields begin to look green. Quite a large acreage sown. Corn planting in full blast. Cattle and sheep are out on pasture and meadows looking out on pasture and meadows looking pretty good. Quite a large acreage of corn and beans will be planted, but not many sugar beets will be raised, as hired help is so scarce. Red wheat 88c; white wheat 88c; rye 56c; oats 35c; beans \$1.90; wool 17@21c; cream 23c; eggs 17c; butter 17c; potatoes 55c per bushel.

Indiana.

Daviess Co.—Dry weather prevails.
Ground is hard to plow; corn late, big crop and about half planted; wheat prospects not so good as two weeks ago; small crop of oats, not at all promising. Pastures short and meadows weedy, but prospects yet good for big crop of hay. The pig crop larger than usual; fewer sheep and lambs. Fruit prospects good; plenty of apples; peaches partly killed only in a few places a good crop left; plenty of small fruits. Nearly everybody has sprayed trees this year and set out more fruit trees. Eggs 18c; butter 20c; chickens 12c; corn 70c; wheat \$1; hay \$20; hogs 8c; cattle 7c; lambs 76c; wool 20c.

North Dakota.

North Dakota. Foster Co.—We have had a very cold wet spring, but the weather is more favorable now. Wheat seeding is finished, but the acreage was decreased so as to get it sown in time. Early grains are up, and the stand is good, and pastures are getting green. There have been many losses of pigs. Several large groves were planted. Several large groves were planted, and nearly everyone put in a few trees. Cattle prices are good at \$7.50 @8; hogs \$6.50; eggs 15c; butter 20c; wool 16@18c per lb.

South Dakota.

Deuel Co—The pig and lowe.

Washington. Washington.

Klicitat Co.—The acreage of spring grains will be larger than last year. Wheat, rye, meadows and pastures look good. Fruit prospects are fine, except for peaches, and many are digging up their peach orchards, as there has been a poor crop for several years. (Special Report of Dunning and Stevens, New York Central Stock
Yards, East Buffalo, N. Y.)
Receipts of stock here today as follows: Cattle 110 cars; hogs 105 d. d.; sheep and lambs 47 d. d.; calves 1600
With 21,000 cattle reported in Chicago today and only 110 cars on our market, the cattle all sold strong, and especially the good weight cattle, quality considered. All the cattle hogs came in from the region around

\$6@10.75 per 100 lbs. for rough heavy to prime light vealers, a few selling as few selling as few selling and singup their peach orchards, as there has been a poor crop for several years. All orchards are sprayed as soon as they come into bearing, and many are digging up their peach orchards, as there has been a poor crop for several years. All orchards are sprayed as soon as they come into bearing, and many are digging up their peach orchards, as there has been a poor crop for several years. All orchards are sprayed as soon as they come into bearing, and many are digging up their peach orchards, as there has been a poor crop for several years. All orchards are sprayed as soon as they come into bearing, and many are digging up their peach orchards, as there has been a poor crop for several years. All orchards are sprayed as soon as they come into bearing, and many are digging up their peach orchards, as there has been a poor crop for several years. All orchards are sprayed as soon as they come into bearing, and many in prices last week on account of the market fall but high, a six-weeks-old pig bringing \$4. Cows \$70@100; hens, in prices last week on account of the market on a much bear plentiful but high, a six-weeks-old pig bringing up their peach orchards, as there has been a poor crop for several years. All orchards are sprayed as soon as they come into bearing, and many new orchards are being set. Pigs are plentiful but high, a six-weeks-old pig bringing \$4. Cows \$70@100; hens, in prices last week on account of the market on a much bear plantation and prices last week on account of the market on

### 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.

bulls \$6.50 @6.85; stock bulls \$1.50 @6.75; feeders \$7.25 @7.50; stockers \$6.75 @7.50; milkers and springers \$45 @75.

Roe Com. Co. sold Beach 8 feeders av 795 at \$7.65; to Mich. B. Co. 2 cows av 1070 at \$6.75, 1 do wgh 950 at \$5, 3 do av 1090 at \$6.75, 1 do wgh 1100 at \$5.25, 23 steers av 990 at \$8.25; to Kamman B, Co. 7 do av 967 at \$8.10, 5 do av 930 at \$8, 2 cows av 1200 at \$6.75, 5 do av 1040 at \$7; to Bresnahan 7 heifers av 480 at \$7; to Kamman B. Co. 2 bulls av 900 at \$6.75; to Sullivan P. Co. 21 steers av 982 at \$8.25; to Og-den 3 cows av 1040 at \$5.50; to Thompson Bros 1 do wgh 920 at \$4; to Kamman B. Co. 4 do av 960 at \$6.75; to Rattkowsky 3 cows av 980 at \$6.25, 1 do wgh 840 at \$5.50; to Thompson Bros 1 do wgh 920 at \$4; to Kamman B. Co. 4 do av 960 at \$6.75; to Rattkowsky 3 cows av 980 at \$6.25, 1 do wgh 840 at \$5.

Bishop, B. & H. sold Sullivan P. Co. 20 steers av 1040 at \$7.60, 26 do av 909 at \$7.75, 20 do av 892 at \$8.10, 10 do av 845 at \$8, 2 bulls av 1410 at \$6.85, 1 steer wgh 750 at \$7, 2 bulls av 1150 at \$6.75, 4 cows av 1082 at \$8.50, 12 do av 1083 at \$8.70, 1 cow wgh 1290 at \$7, 2 steers av 1060 at \$8.50, 12 do av 1083 at \$6.75, 1 bull wgh 1360 at \$6.75, 5 cows av 1240 at \$6.50, 23 steers av 1050 at \$8.25, 3 cows av 947 at \$6, 13 steers av 990 at \$8.25; to Mason B. Co. 9 do av 861 at \$8, 1 cow wgh 930 at \$7, 2 cow and bull av 1130 at \$6.50; to Brestenbeck 3 cows av 960 at \$5, 14 do av 1034 at \$6.50; to Kamman B. Co. 15 butchers av 908 at \$7,90; to Parker, W. & Co. 2 canners av 810 at \$4, 2 do av 685 at \$4; to Mich. B. Co. 2 cows av 985 at \$5.25, 2 cows av 910 at \$8.66, 10 do av 998 at \$7.75, 1 do wgh 1540 at \$8.25; to Ratner 1 bull wgh 1400 at \$7.25; to Parker, W. & Co. 2 tsteers av 1065 at \$8.25; to Mich. B. Co. 8 do av 940 at \$7.75, 1 do wgh 1540 at \$8.50.

\*\*Receipts 1144. Market steady. Best lambs \$8@8.25; fair to \$6.66; yearlings \$6.50 @7.25; fair to \$6.66; yearlings \$6.50

Hogs.

Receipts, 7755. Heavy \$8.55; pigs and lights \$8.70; bulk of sales \$8.60.
Bishop, B. & H. sold Hammond, S. & Co. 4300 av 190 at \$8.60.
Same sold Miller & Co. 1012 av 200

Roe Com. Co. sold Sullivan P. Co. 617 av 190 at \$8.60.

## Friday's Market. May 22, 1914.

Receipts this week 1510; last week 1564; cow stuff 25@30c lower than last week; butchers10@20c lower; bulls steady. Best heavy steers \$8.75@9; best handy weight butcher steers \$8.25@8.50; mixed steers and heifers \$7.75@8.25; handy light butchers \$7.50@8; light butchers \$7.60% \$6.75@7; butcher cows \$5.75@6.25; common cows \$5.6.50; canners \$3.00.4.25; best heavy bulls \$7.00.25; bologna bulls \$6.50.06.85; stock bulls \$6.50.06.75; feeders \$7.25.07.50; stockers \$6.75.07.50; milkers and springers \$45.00.50.

Veal Calves.

Receipts this week 1369; last week 1124; market dull and 50c lower than Thursday's opening. Best \$9.50@10; others \$7@9.

Sheep and Lambs.

Receipts this week 2036; last week 2028; market dull and 10@15c lower. Best lambs \$8; fair do \$7.50@7.75; light to common lambs \$5.75@6.50; yearlings \$6.50@7.15; fair to good sheep \$5@5.75; culls and common \$3.50@4.

Receipts this week 9955; last week 9487; market 5@10c lower; all grades \$8.50@8.55.

# Veterinary.

CONDUCTED BY W. C. FAIR, V. S.

Thursday's Market.

May 21, 1914.

Cattle.

Receipts 1368. Bulls dull; other grades 10@20c lower than last week; milch cows \$5@10 lower.

Best heavy steers \$8.75@9.10; best handy weight butcher steers \$8.25@ handy light butchers \$7.75@ 8.25; handy light butchers \$7.75@ 8.25; handy light butchers \$7.50@8; light butchers \$7@7.50; best cows \$6.75@7; butcher cows \$6@6.50; common cows \$5@5.50; canners \$3@4.25; best heavy bulls \$7@7.25; bologna bulls \$6.50@6.85; stock bulls \$6.50@ 6.75; feeders \$7.25@7.50; stockers \$6.75@7.50; milkers and springers \$45@75.

Roe Com. Co. sold Beach 8 feeders av 795 at \$7.65; to Mich. B. Co. 2 cows av 1070 at \$6.75, 1 do wgh 950

to draw milk with tube and other in-struments, but the teats seem to be clogged and he stated nothing could be done to restore udder. The calf is living on milk taken from one teat. C. V. J., Merrill, Mich.—Your cow is not worth considering for dairy pur-poses. She might raise her calf, then fatten her poses. She fatten her.

Luxation of Stifle.—The stifle of my

Luxation of Stifle.—The stifle of my two-year-old filly seems to slip out of place and when she moves, especially on a turn, it gets back into position, then she walks all right. F. W., Rapid City, Mich.—Clip hair off stifle and apply one part cantharides and eight parts fresh lard every week or tendays and she will be all right.

Congested Udder.—My 10-year-old cow freshened last March, caught cold, udder became congested; I formented same with hot water several times a day until inflammation subsided, then applied bag-balm, but udder is not yet clear. Is the milk fit for use? I. M. W., Clayton, Mich.—I Milk drawn from diseased udders thought of because of the home. Apply one part iodine and 20 parts fresh lard to diseased portion of udder once for twice a day and give her a tables as and a dessertspoonful of fluid extract phytolacca at a dose two or three times a day. Are you sure that she does not bruise udder?

Splint.—Will you publish in your paper a cure for splint on fore leg of

Splint.—Will you publish in your paper a cure for splint on fore leg of horse? S. A. R., Townley, Mich.—Splint is usually the result of concussion or a blow; therefore, you may be able to ascertain cause and remove it. Apply one part red iodide mercury and eight parts lard once a week also give the horse rest and he will soon get well.

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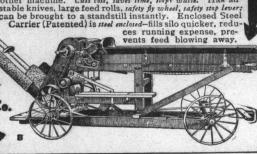
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80. MICH. DAIRY FARM—160 acres best dairy and farming section So. Mich, near milk condensery, good school, all tiled, woven wire fence, fine buildings, owner retiring, a bargain, address quick. F. A. KINNEY, Seneca, Lenawee Co., Mich.

For Sale—Farm 130 acres, Stark Co., Ohio, 10 miles station—several small towns near, 5 miles to brick road. Land is rolling and productive, Good S-room house and out kitchen; bank barn 35:30; new silo 22:30; there are other outbuildings. Half the crops goes with the farm and will invoice half stock at a low figure. Only \$50 per acre. Make appointment with JAMES BHAND, Stockport, Ohio.

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All parts of the Provinces of Manitoba, Saskatchewan and Alberta, have produced wonderful yields of Wheat, Oats, Barley and Flax. Wheat graded from Contract to No. 1 Hard, weighed heavy and yielded from 20 to 45 bushels per acre; 22 bushels was about the total average. Mixed Farming may be considered fully as profitable an industry as grain raising. The excellent grasses full of nutrition, are the only food required either for beef or dairy purposes. In 1912, at Chicago, Western Canada carried off the Championship for beef steer. Good schools, markets convenient, climate excellent. For the homesteader, the man who wishes to farm extensively, or the investor, Canada offers the biggest opportunity of any place on the continent.

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ducts. Our 25 years in

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FARMERS—We are paying good premium above to Official Detroit Market for new-laid eggs shipped direct to us by express. Write us for informatiok. It will pay you. American Butter & Cheese Co. 31-33 Griswold St., Detroit, Mich.

Griggs, Fuller & Co., Wholesale Commission House potatoes, poultry and rabbits. Quick returns.

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WANTED to hear of good farm or unimproved land for sale. Send description and prices Northwestern Business Agency, Minneapolis, Minn

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WANTED—to buy a farm of 60 to 100 a. near Detroit, from owners only, give full particulars, lowest price in first letter Address, Ed. Feige, cr. 60 McLean Ave., Highland Park, Mich

\$4500 60 a., 9-room house, large basement barn, fruit to mi, Other farms. The Ypsilanti Agency Co., Ypsilanti, Mich

THE CALIFORNIA LANDS. San Joaquin Valley FAMOUS CALIFORNIA LANDS. Irrigated Earner grow alfalfa, walnuts, peaches, apricots, cherries, grapes, almost everything. Write for information. J. D. TOWAR, East Lansing, Michigan. 125 ACRES

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### BREEDERS' DIRECTORY.

(Continued from page 577.)

### MY OH MY! What an Opportunity.

Starting May 1st, we are going to give to the farmers and breeders an opportunity to get started right in the breeding industry. We are going to give you a chance to get hold of foundation stock that will give you a nucleus for one of the finest and best herds in your community. We are going to show you as we have others, that you will have greater success with our big type

### POLAND CHINAS

than with any other breed. We want to place at least one pig. or a pair in every community, to adver-tise our herd. We will give agency, if not already taken. If interested, write for our plan and prices. HILLCREST FARM, KALAMAZOO, MICH.

P. C.—Fall boars and gilts. Spring pigs. Shorthorn females, Oxford Sheep. C. W. CRUM, Seoy., Cent. Mich. Shorthorn Ass'n., McBrides, Michigan.

POLAND CHINA PIGS—From large Prolific stock Shorthorn Bull Calves. Eggs \$1 per 15 from choice Barred Rocks. ROBERT NEVE, Pierson, Michigan

DUTLER'S Big Boned Prolific Poland Chinas. Grow big, keep easy, mature early, ready for market at 6 months. Why? Because we've bred them that way for more than 20 years. We have 25 big boned boars ready for service. Buy one and make more money on your hogs. You can't get any better at any price. P.C. History Free, J. C. BUTLER, Portland, Mich.

30 Poland China Fall Pigs—Good ones from immune sale Feb. 7th, send your name for catalog if you want to buy Big Types with Quality. Wm. Waffle, Coldwater, Mich.

350 BIG TYPE MULE FOOT HOGS—America's (hampion Herd. Prolific, hardy. Best for Mich Also Ponies. J. DUNLAP, Box M, Williamsport. Ohio

Mule Foot Bred sows, bred gilts and boar pigs, not related, for sale. Satisfaction guaranteed. G. C. KREGLOW, Ada, Ohio

Yorkshires — Spring Pigs Of Excellent Quali GUY J. DOTY, R. 2, Monroe, Michigan.

FOR SALE -Yorkshire boars ready for service.
Sows bred for Sept. farrow. Pricer reasonable. C. H. JOBSE, Mt. Clemens, Mich.

YORKSHIRE Swine—March & Apr. pigs ready to ship, Pairs not akin, College Princess and Cooks Bacon foundation stock. Geo. S, McMullen, Grand Ledge, Mich.

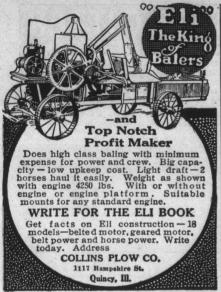
Yorkshires Guaranteed to not die of Cholera. Prolific, delivery. Not akin. Cribbs Bros., Watervliet, Mich.

### YORKSHIRES

The large, long-bodied, prolific kind, Gilts bred for July, August and September farrow. A choice lot of spring pigs, pairs and trics, not akin. Prices reasonable W. C. COOK, R. 42. Ada, Michigan.

### Lillie Farmstead Yorkshires Open gilts and gilts bred for September farrow. Spring pigs either sex, pairs and trios not akin, Satisfaction guaranteed.

COLON C. LILLIE, Coopersville, Michigan.







SILO FILLERS





THE CONSERVATION OF SOIL MOISTURE.

(Continued from page 566). Surface Cultivation Should Speedily Follow a Rain.

Following a very heavy rain, the soil becomes packed and in a very short time an intricate capillary system is started up in the surface soil. This draws the soil water to the surface and thus very rapidly causes the dissipation of the moisture by evaporation into the air. It becomes necessary, therefore, if this moisture is to be conserved for plant growth, that as speedily as possible this surface capillary condition should be destroyed. This is done by surface cultivation and is successful only in that soil in which previous to the planting of the seed a well prepared seed bed has been established.

Deep Cultivation vs. Shallow Cultivation.

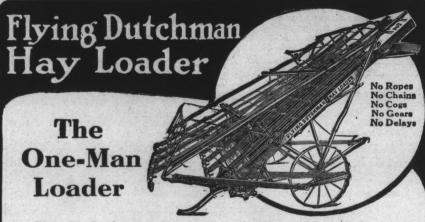
Deep cultivation is not practiced during the growing season of the year and is not necessary if the soil has been properly prepared previous to the sowing of the seed. If so prepared it will not be sufficiently compact to make a penetration by means of the roots an uncertain feature.

Surface cultivation will accomplish both processes of conservation, namely, the conservation of soil moisture first, and second, the eradication of noxious weeds and the like, both procedures being necessary to reserve for the growing crop its full complement of soil moisture. In most instances the greatest damage done to a growing crop by weeds and the like is caused by their withdrawing from the soil of this soil water which we are so anxious to conserve. Consequently cultivation which aims at the conservation of soil moisture stops short of accomplishing its full purpose in this line when it does not remove the weeds and the like at the same time.

An Illustration of Nourishment Through Capillary Water.

The enormous influence of capillary water of soils was very strikingly presented to the writer on a trip over the high sand dunes of northern Michigan a few years ago. Over near Point Betsey, on the Lake Michigan shore, as we were crossing one of the high sand dunes for which this region is noted, on the very top of one of the highest dunes we found growing in the greatest of luxury a sand cherry plant probably extending over an area of 10 feet in diameter. There was no evidence of any possible external source of nourishment. Water there was none, but it was very evident to see that in this highest point the plant was deriving its nourishment through the capillary water of the soil which in this manner had risen a very great many feet through dry sand to the top of this sand dune. Not only was the plant growing in apparent luxury, but it was loaded with a crop of rich, luscious sand cherries.

It is this ability to conserve the soil moisture which has made the principle of dry farming so successful in the middle west, and at this period of the year and from now on during the period of greatest growth, it is this feature of cultivation that deserves the most careful attention on the part of the farmer



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