

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

VOL. CXL. No. 24. Whole Number 3647.

DETROIT, MICH., SATURDAY, JUNE 14, 1913.

50 CENTS A YEAR. \$2 FOR 5 YEARS.

Why and How to Thin Fruits.

tions which is often recommended but remedy for such cases. seldom practiced. Many think it one of the non-essentials, one of the frills of orcharding. thing for the man who wants to putter it very important in getting good fruit. bers. On apples, however, there is gen- a light crop. Such heavy bearing parts around and get rid of some time and Peach growers especially find it very money he has to spare. Others think it profitable to thin. The difference in size one of the most important operations of in the peach makes great difference in the orchard and one which will do much the market value. Fruit from unthinned to bring out the good qualities of the trees when heavily loaded is small and fruit. They believe that for the time runty and is often a drug on the market will

Thinning is one of the orchard opera- stunted in growth. Thinning is the main Increases Percentage of Good Fruit.

Commercial growers of plums and They consider it a good peaches who have tried thinning consider the fruit making up for the lack in num- ily loaded while the rest of the tree has fruit. They believe that for the time runty and is often a drug on the market will generally be just about as much half to three-quarters of a crop. The and money invested it brings as much when large sized fruit sells readily. Aside packable fruit on the unthinned trees as axiom, "look up, not down," is one which profit as most anything that can be done from increasing the size of the plums



Well-cared for Six-year-old Keiffer Pear Orchard. (See Article on Next Page).

The Theory of Thinning.

The theory of thinning sounds good and the rot. practical. The prime purpose of fruit There is no doubt in the minds of those or less wrinkled, and in bad cases fall Apple scab is caused by a fungus known trees in their natural conditions is to who know, as to the practical value of prematurely. This exposes the tree to scientifically as Venturia pomi. The disreproduce their kind. Their main object thinning of peaches and plums. It is is to produce seed, not fruit. The fleshy profitable beyond a doubt. But as to buds from developing normally. part of the fruit, carrying the seed, is the value of thinning apples there is some for the protection of the seed; and inci- controversy. Some are very enthusiastic fungus is found upon the fruit. Typical tree. When these spores are blown onto dentally, a little flavor tasting good to over it and others who have tried it find man and animals is given to the fleshy that it does not pay. It depends upon part so that they will eat it and thus aid circumstances whether it pays or not. in the distribution of the seed. A bitter The market catered to is probably the or unpleasant taste is usually given the determining factor. If apples are sold seed so that it will not be chewed but through the usual channels of trade, the rather, swallowed whole or spit out.

the vitality of the tree. The seed con- comes a mark of reputation, it is very tains concentrated essential plant ele- doubtful if it will pay to thin. There is ments. The fleshy part contains little not enough di 'inction made between the besides water.

of seed, and therefore the fruit is gener- ning is one of the operations which beally smaller than man would like it. Man long to the fancy fruit business, and cares little for the seed, in fact he is should be followed by other operations constantly trying to do away with it. The which belong to the same line of work. fleshy part is what he is after. The tree The apple grower who thins should work cares little for the fleshy part but puts up a reputation for his fruit in the parforth all efforts to produce seed. To ac- ticular market he caters to. He should complish his aim man must thin out the have his grades well established and fruit so that the remaining fruits will get stick to them. Then thinning will be larger size. of part of its task of producing seed it sidered essential and most profitable out the accompanying photograph. The fun- as a seed would in the ground and start puts its energies into developing larger west where they are careful about their gus also attacks the stems of the young growth. The mycelium or roots of the fleshy parts to the remaining fruits.

Nature uses no judgment in the production of fruit. A tree will bring to maturity before it bears again. By limiting the ing. they will die prematurely. Thinning will at harvesting time. lengthen the lives of such varieties. Some varieties will bear crops too young, and into thinning we generally get three back, of a light gray color.

in the orchard, excepting spraying. The thinning plays an important part in the latter are generally those who have in- control of the fungus troubles of the plum. latter are generally those who have in- control of the fungus troubles of the plum. olive green spots of more or less circular apple. This allows the fruit to dry out. vestigated the matter most thoroughly. Thinning so that no two fruits touch outline. Later these spots become darker A good instance of this is shown in one each other will greatly help to control

commission house, and packed without The production of seed is a drain on any distinctive pack or mark which bevarious grades of fruit in the way of The tree generally tries to bear a lot price to make it pay for thinning. Thin-When the tree is relieved profitable with a doubt. Thinning is congrades and pack.

The Cost of Thinning.

packing and marketing. So with the av- fruits. No two fruits should touch each ning.

periments have shown, have about 20 per

large profits.

about six to eight inches is the proper his conscience begins to hurt him. distance to thin apples. Peaches should The proper time for thinning is just not be left any closer together than four as soon after the June drop as possible inches, five or six inches would be better, for apples and before the pit hardens in and for plums about four inches. If the case of the stone fruits. variety of plum is large the distance should be greater. In all cases the clus- the best thinning tools known. ters should be thinned out to one or two Van Buren Co.

erage cost of 50 cents a tree we would other. The largest and most perfect fruit get a dollar per tree profit on the thin- should be left. Fruit at the ends of long This would amount to \$50 per acre growths had better be taken off so as to profit, which is nothing to be sneezed at. lighten the load of the tree. These ter-Thinned peach and plum often have as minal fruits are generally bruised so as many bushels of fruit as they would have to make a second grade fruit anyway. had they not been thinned, the size of Often one side or part of a tree is heaverally less fruit but the larger per cent should be thinned as the different limbs of the better grade of fruit is what makes of the tree are independent of each other thinning profitable. Unthinned trees, ex- in the bearing and setting of fruit.

Thinning needs courage. It seems cent more culls than those thinned. There wasteful to most people to thin off oneon the thinned but there will pack only the thinner should keep in mind. Pay no about half as many number ones from attention to the fuit on the ground, it the unthinned as from the thinned. The may weaken your courage. In the west others will be of the lower grades. Culls the Japs are considered the best thinand number twos are not producers of ners because they do as they are told, regardless of what they think the conse-Thinning needs judgment. It is hard quences will be. The white men, they to state set rules for it. A distance of say, lets up a little on each tree because

The human hands, well directed, are

FRANK A. WILKEN.

Apple Scab and It's Control.

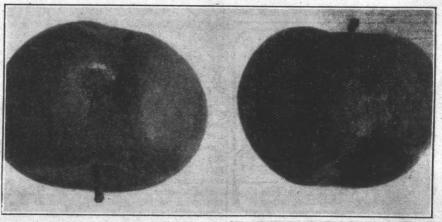
apple. It attacks both the foliage and the tacks of the fungus. green, or brownish, and more irregular of the apples in the photograph. in shape. The leaves are frequently more

specimens of the disease are shown in a leaf or fruit they germinate the same

The disease known as apple scab is fa- ally more numerous around the blossom miliar to nearly everyone. It is probably end of the fruit. Frequently the fruit is the most serious fungus disease of the distorted while it is young by severe at-Where the scab fruit, appearing first in the spring on the spots are numerous they often run toyoung leaves, where it produces velvety gether and then cause deep cracks in the

The Nature of Apple Scab.

sun scald and often prevents the fruit ease is spread by means of minute spores or germs which grow on the scab spot The more characteristic effect of the and are blown by the wind from tree to



Apples Affected with Scab. Proper Spraying is Best Means of Control.

weather is unusually cool or moist. This or fruits and derives so large a crop of fruit in one a-boo to the intending thinner. Thinning drop, and often reduces the crop very of the disease is very much influenced by year that it will have to rest up a year is epenxsive, the cost of running all the materially. On the fruit the spots pro- weather conditions. can often bring the tree to annual bear- thin a tree as it does to pick it. The those on the foliage Later the outer account the disease is spread mostly in Some varieties will overbear each cost of thinning is somewhat offset by layer of the skin peels off, caused by the the spring and early summer or in the year and so deplete their vitality that the greater ease of picking and packing working of the fungus under it. These fall. There are usually two bad infecspots on mature apples have a dark brown tions during the year, one occurring in

fruit at blossoming time, especially if the fungus grows into the tissues of the leaf its nourishment The cost seems to be the greatest bug- causes the young apples to shrivel or from there. The development and spread Moisture on the way from 20 to 80 cents a tree. Some duced are circular and greenish black in surface of the leaf or fruit is essential to production in the productive years man figure that it takes just about as long to color, appearing at first very much like the germination of the spore. On this Tests show us that for every cent put or blackish color with a narrow margin June shortly after the young apples have into thinning we generally get three back, of a light gray color. They present a set, and another in August or September. as a result will become checked and that is, provided proper care is given in rough russeted appearance and are usu- The disease spreads very little during the



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hot dry weather of summer. It is not uncommon to find it developing upon apples in storage. If the fruit is affected

shine. Therefore the first preventative is the spread of the disease the following results on many soils. This can be done in two ways, The best authorities advise sowing from year.

boiled lime-sulphur shortly after the pet- gether upon local conditions. als have fallen, and a third application growth, other applications may need to be This can be judged by the growmade. trouble will be kept under control.

Ingham Co. A. C. MASON.

THE KEIFFER PEAR.

said that this variety can be raised at a eral manuring of the land and the appliprofit when sold for only 25 cents a bush- cation of lime will, however, go far to inel. much cheaper than that and on the av- ing alfalfa. erage it should be made a very profitable It is a large golden yellow pear crop. that becomes tinted with red on the sunny side, and though the quality is only fair, it is a profitable and desirable market variety. The Keiffer must be properly ripened in order to bring out its good qualities as an eating pear. They should be left on the trees until reaching full maturity and picked just before they begin to tint, which is at about the time that the leaves begin to fall. After picking they should be placed in a dark, cool storage room where an even temperature is maintained. Stored in the proper manner develops their quality and makes the Keiffer a far more desirable variety.

It is one of the most hardy of all our commercial pears and its resistance to blight is well known. It is not wise to plant a large number of one variety of pears in the same block but for cross pollination, the Garber is recommended as a very efficient variety. In a large orchard about eight or 10 per cent of the Garber will be sufficient.

The big money in Keiffer pear raising is due to its value as a baking and canning pear. The canning factories demand a pear of good size and shipping qualities and make a fine market for large quantities of this variety. The large size and remarkable beauty make it a favorite on the fruit stands where attractive specimens having good keeping qualities are necessary.

The Keiffer pear tree is productive and for the use of succeeding crops. the fruit will hang on well in a high makes a good-looking, ornawind. It mental tree for the front yard and serves the dual purpose of furnishing landscape beauty and good fruit for the table. The rushed them to market when immature has not made any great growth. and they have been purchased by the un- question is, what effect will this have farming communities more alive to the informed public and used for immediate upon the wheat? People who have been best there is in farm life. consumption. When carefully handled and good observers all their lives say that properly ripened, the average pear mar- this is going to be a splendid wheat year, ket will find little fault with the Keiffer. that when wheat heads short, when it The combination of juiciness with the doesn't go all to straw it will go to head, as an agricultural state. It ranks first subacid flavor and the aroma of the Bart- and we will have a good yield of good among all the states of the Union in the let make it a variety that will receive plump wheat. more consideration from a select market

FARM NOTES.

Seeding Alfalfa in Wheat.

ples in storage. If the fruit is affected with the spores before going into storage, the fungus will continue to grow. The spots render the apples very unsightly and unmarketable at fancy prices. The disease thrives best during moist cool weather, particularly so when this prevails during the early part of the sum-mer. Also, trees appear to be more sub-ject to attack when crowded so as to shut off a free circulation of air and sun-stine. Therefore the first preventative is

Where lime is to be applied as a prepto select a good location where air drain- aration for alfalfa in the manner sug-age is possible, space the trees at a prop- gested by this inquiry, it will be best to er distance apart, and then thin out by sow same after the ground is plowed for proper pruning. Another method of at- wheat, and work the lime into the soil tack is by destroying the dead leaves. It when the land is being fitted for the has been found that the disease winters wheat crop. The best method of applying over on the dried fallen leaves. These lime is with a lime or fertilizer distribuare then the starting place for the growth tor, although if hydrated lime or ground on the next season. Therefore if they lime is used, a sufficient amount can be can be destroyed it will prevent some of sown with a fertilizer drill to give good

either by raking up the leaves and burn- two to four or more tons of ground limeing them or by plowing them under, stone per acre. It is the writer's experi-The most important operation in its \exists nce that a lesser quantity will give control, however, is spraying. This must equally satisfactory results, although the not be neglected if the disease would be beneficial effects will doubtless not be as kept from doing harm. For this purpose permanent where only a small application either Bordeaux mixture or lime sulphur is made. We have just finished sowing a solution can be used, and at least three carload of ground limestone at the rate applications should be made. The first of one and a half tons per acre, and have should be put on just after the buds have had very good results where hydrated swollen and begin to show color. How- lime was used in quantities as small as ever, if the trees have been thoroughly 400 to 500 pounds per acre. Where ap-sprayed with lime and sulphur for scale plications of ground limestone are made, before the buds open this first application it can be distributed with a manure for scab can be omitted. Another should spreader or even sown by hand. The be made with dilute lime-sulphur or self- method of application will depend alto-

Whether alfalfa can be successfully about the first part of August. Where seeded with wheat on land where it has the disease is very bad or the weather never grown is a point not thoroughly condition especially favorable for its demonstrated. We have known of some very good stands of alfalfa secured in this way, but unless one is certain that er. If these methods are followed out the the bacteria peculiar to the plant, is present in the soil, or unless the soil is liberally inoculated with this bacteria, this method of seeding might not be as successful as it doubtless will become when our soils become thoroughly inocu-The Keiffer pear is the standby of the lated with this bacteria, as they now are masses and one prominent grower has with that peculiar to red clover. The lib-There is no fruit that can be raised sure the success of any method of seed-

Crops for Green Manure.

Cass Co. SUBSCRIBER,

as cowpeas or soy beans would be more three places at once-each speaker taking profitable to use as a green manure crop his turn at every meeting place. This on this land than would rape or millet or system worked the speakers pretty hard buckwheat or rye because it adds some but reached the people in every remote plant food to the soil, provided the soil, part of the country. or seed, is inoculated with the bacteria peculiar to the legume sown. One of meetings, four of them remaining these crops, if sown in rows and cultivat- throughout the week: Prof. P. G. Holed, a large growth of vegetable matter den, Chas. W. Farr, W. R. Baughman, would be secured which would be in the all of the extension department of the best possible condition to plow down the International Harvester Company. following spring. Either the soy beans Eben Mumford, of M. A. C., John C. or the corn, or both, should be fertilized Ketcham, Master of State Grange, and with a phosphoric acid and potash fer- C. B. Cook, of the Allegan Farm Bureau. tilizer, provided the ground is in need of Each meeting lasted from one hour to added fertility in order to get maximum one and a half hours. The subject was results with the corn. buckwheat, or in fact, any cover crop will add vegetable matter to the soil and at the close of each session bore testithus tend toward increasing its humus mony to the amount of interest taken by content, but will add nothing in the way of actual plant food which the soil did truck carried a quantity of alfalfa liternot already contain, simply leaving it in available form for the succeeding crop. while a leguminous crop will accomplish going to grow alfalfa this year gives the this same result and at the same time add a needed store of nitrogen in the soil in the county who will plant all the way

LILLIE FARMSTEAD NOTES.

The Wheat Crop.

We have a good stand of wheat in this merits of this variety have not been ap- country but it is heading very short. The honest trial. preciated because so many farmers have spring has been cool and dry and wheat ductive soils, better crops, an abundance The Season's Work.

field of lima beans. A field on which we will plant common field beans is all ready to be planted, and the ground is all fitted for the rest of the spring crops, with the exception of the potato crop, and that has been plowed and harrowed for some time. We hardly ever get our ensilage corn in before the middle of June and sometimes not until the last of June. We hardly ever plant our late potatoes until after the middle of June, so that we are very much farther ahead with our work this year than we have been in the last several years, and it is quite encouraging. It looks now as if we would be able to harrow the corn ground before the corn comes up and after the corn comes up. Some years it is so wet that we can't get onto our heavy land and the weeds get a good start and it is almost impossible to clean corn fields without handhoeing. It looks this year as if we could

manage it without any hand-hoeing. Applying Fertilizer to Beans.

In planting lima beans and also in planting common field beans this year we planted them with a wheat drill, sowing three rows at a time. We used commercial fertilizer, stopping up the feed runs directly over the hoes that sow the seed so as not to have any fertilizer in the drill with the beans, as beans are very susceptible to injury from fertilizer when They are very much it touches them. more tender in this respect than corn or oats or wheat, and so we have just sown the fertilizer in the drill hoes on either side of the row, and I believe the best way is to go on and sow the fertilizer broadcast with the drill before you plant the beans, and harrow the ground and mix it thoroughly with the soil, but, of course, it takes more time to do this. As long as we have a drill with the fertilizer attachment we are putting on the fertilizer at the same time we plant the beans to save going over the field once. Probably, taking everything into consideration, it is the most practical way to use fertilizer.

Rape Ready for Hog Pasture. The rape and oats have made a remarkable growth the last few warm days and we are able to turn the hogs into one field.

THE ALLEGAN COUNTY ALFALFA CAMPAIGN.

The alfalfa campaign in Allegan county turned out better than we dared to hope. In all there were 49 meetings held in the What crop should I sow in June for a county during the week and in all, 5,925 green manure crop to be plowed down for people attended. Wayland and Allegan corn next spring? Soil is sandy loam with clay sub-soil. I had thought of Hun-garian millet or buckwheat, or possible, most plant food from. Cass Co. Supscrate were held within the week by a system In the writer's opinion legumes, such of relays that kept meetings going in

The following speakers addressed these Dr. Rape or rye or divided by the speakers, so little ground was covered twice. A lively discussion the farmers generally. A large motor ature for everyone interested and samples of seed. A partial list of those who are names and addresses of over 300 farmers from one to 20 acres each.

The alfalfa campaign has done much to arouse people on the farms county to the splendid possibilities of a great crop that is growing rapidly in favor in all sections where it is given an Aifalfa means more pro-The of the best hay that can be grown and Allegan Co.

C. B. COOK.

Michigan is fast coming to the front production of beans and rye, and is second in the production of apples and poevery year, as its good points and limi- At this writing. June 3, we have our tatoes, and third in the production of tations are understood. R. G. KIRBY. ensilage corn nearly all planted, and one pears, grapes and buckwheat.

IMPROVING OUR POTATOES .-- II.

In attempting to improve any of our varieties of potatoes, it is well to keep in if persistent effort and attention were to mind the fact that some of the characteristics we can not change. If the variety popular varieties of potatoes, the quan-is red, or flesh colored, the color is fixed titles required by the consumers of the and we can not change it./ If there is a country could be supplied from one-half tendency toward deep eyes, we may mod- the usual acreage devoted to the crop, ify this fault some by selection, but can the quality would be improved and a not entirely eradicate it. If the potatoes larger profit remain in the producers' are round, and when they grow large are hands after the necessary expenses of the hollow in the middle, it will be impossible crop have been met. to breed them solid all through and maintain large size and productiveness

proving a variety of potatoes we wish to retain on account of desirable leading characteristics, is to keep in mind the faults and modify them, and if possible, better," is the slogan that I have adopted eradicate them. If the round variety is when inoculating for alfalfa. Why not? inclined to grow too large, and are hol- If you will stop and think about it a little low, select the tubers from which to se- you will surely see it as I do and if any lect the breeding sprouts, from among the of the readers of the Michigan Farmer tubers that are moderate in size, and put will visit me I can convince them that my more seed in a hill, thereby changing the new method of inoculating is far ahead habit. There is not much danger from of any method they ever heard of and the hollow middles where there is a large cost is but a trifle as compared to the number in a hill. Eight or ten medium good it will do. One team with two wagsized potatoes in a hill gives bett'er results, both as to quality and yield, than two men to spread the soil can inoculate, three or four large overgrown ones.

grow long and coarse, select medium method is to manure the ground quite sized tubers for seed that are more oval heavily with well rotted manure, or what and have a tendency toward a large is better, with fresh manure that has but number of eyes. Consumers dislike the very little straw in it, and on a cloudy large, prongy potatoes; they are coarse day (and if it rains a little it is all the grained and lack the rich potato flavor better), draw from two to three tons of that the medium sized potatoes have. On soil from a well inoculated alfalfa field account of their poor quality buyers of- and spread it right onto the manure and ten throw out as culls the long, large, disk it thoroughly at once. You should prongy potatoes, while the very large po- have one team follow with the disk and tatoes pile up well in the measure they if that is not convenient do not spread are not profitable to raise, because both more than one wagon load before diskbuyers and against them.

right kind of tubers, the strength and but be sure to disk it before the sun vigor of the vines can be maintained and shines on it, for if the sun shines on it improved. The strong vines resist dis- even for only a short time it will kill the eases, while those of a feeble growth bacteria and your work will be wasted, readily succumb to diseases of various and much worse than wasted, for you kinds. The kind of potatoes that have a would think inoculating does no good and strong root system and produce vigorous you would not try it again. Then plow vines withstand summer drouths and the as soon as convenient.

not been bred up in vigor can not be come and see it. depended upon to yield well in quantity I was much interested in the article in

seed procured lacked the breeding, or that "if a little is good, more is better." ancestral influences necessary to make a profitable crop.

ancestral influence can, and will, be carried over during unfavorable seasons and Seeding alfalfa after early potatoes has were reasserted under favorable condi- much the most profitable of the three.

THE MICHIGAN FARMER

tions, and he had an excellent yield of potatoes from the small seed. good

We have good reasons for believing that be given to improving our best and most Wayne Co. N. A. CLAPP.

One of the first things to do in im- THE BEST METHOD OF INOCULAT-ING ALFALFA.

The adage, "If a little is good more is ons and one man to load the wagons and using two tons of soil per acre at a cost If the variety in hand is inclined to of not more than one dollar per acre. My consumers discriminate ing it in. If it should happen to be rain-ing a little it won't do any harm to in-By careful selection of seed from the oculate two or three acres before disking

diseases which prey upon both vines and On May 3, 1912, I sowed a field of altubers, much better than those that have falfa with peas for the canning factory. but a small root system. A small part of it I did not inoculate; on The fact should be kept in mind that part of it I sowed a half ton of soil per ancestral influences, both natural and ac- acre, and on part of it I sowed one ton quired, can be retained by proper man- and two tons per acre. Where I sowed it agement. If the varieties raised are vig- at the rate of two tons per acre and orous, that characteristic can be improv- plowed it under with the manure the al-ed and be depended upon to assert itself falfa is so much better than where I each year if the conditions with which sowed a half ton per acre after plowing they are surrounded are favorable. The and dragged it in, that I would like to potatoes of the same variety that have have everyone that intends to sow alfalfa

or quality. It is the well bred strains of the Michigan Farmer of May 4, from Mr. the varieties grown that yield best. The Colon Lillie, in which he tells how he rule holds good with grains and vegetables inoculated for alfalfa, and I think it is as with the dairy cows and laying hens. all right as far as it goes, but if I did When we were using the then new va- not use more soil than he did I would not riety known as the White Elephant, I expect much result on my farm. Perhad used them as a field potato for sev- haps his land does not need as much ineral years on account of the excellent oculating as mine does. Now if Mr. Lillie quality as an eating potato, and also on will come and see my field of alfalfa and account of their being good yielders. One tell the readers of the Michigan Farmer spring I had laid out the ground I de- exactly what the thinks of my method of sired to plant, but found that I lacked inoculating and how much more hay he about one-half bushel of seed to plant thinks I will get per acre by my method the whole patch. Rather than plant an- than I will from the old method of inocother variety in the same field I went ulating he will do more to put alfalfa on about three miles to secure the same kind the map of Michigan than all of the alof seed. At digging time the difference falfa campaigns have done in the state in the potatoes produced from the half this year, for they do not advocate heavy bushel of seed procured away from home inoculation and heavy inoculation mixed was very pronounced; there was not the with manure and plowed down is the uniformity in size, nor was there any foundation on which we must build if we thing like as good yield. As far as I make a grand success in raising alfalfa. know the conditions were equal. The Therefore when inoculating don't forget H. K. BRANCH. Oceana Co.

I have a case in mind which shows that ALFALFA AFTER EARLY POTATOES.

reassert itself when the seed is surround- proved the most satisfactory method at ed by favorable conditions. A farmer in the Ohio station. A few years ago Dean one of the great potato growing districts Price, of the College, conducted a comof the state sold some seed potatoes of parison of different methods of seeaing a good variety to a man living on light, alfalfa. He started three small pieces of sandy soil. The seed was planted, but on alfalfa each containing six acres. The account of a dry season and adverse con- first six acres were seeded in the spring ditions, the crop was nearly a failure, with oats as a nurse crop, the second six For some reason the man who sold the acres were fallowed during the summer seed needed more for planting the follow- and seeded late. These two plots during ing season than he had on hand, and the following two seasons produced pracrather than take such seed as could be tically the same amount of hay. On the secured in his immediate community, he third six acres the land was planted to went to the man to whom he had sold early potatoes. These six acres produced seed the previous year and bought some 533 bushels of potatoes. During the folof his small potatoes, as those were all lowing two seasons the third plot yielded that could be secured. To his gratifica- much the same as the others but the tion and profit the ancestral influences money from the potato crop made it

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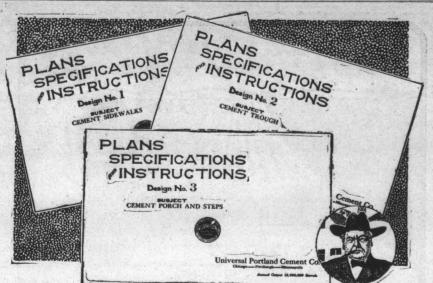
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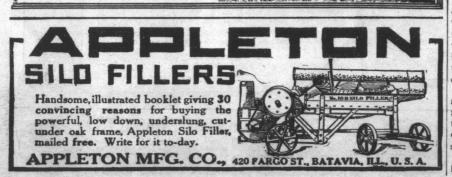
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their lambs and the gradual decline in year \$5.36, third year \$6.35; cost of grain growth of pasture there is every danger fed, first year \$4.98, second year \$7.14, that the ewes will become reduced in flesh third year \$9.56; hay, first year \$4.14, sec-and unthrifty. No time of the year is ond year \$6.61, third year, \$8.48; pasture, more vexing to both sheep and flock first year \$2.56, second year \$5.41, third owner than the summer season when year \$6.21; other costs, \$5.01; total, \$104.06. drought and excessive hot weather re- The total cost for all feed is \$56.30, tards pasture growth. Meadow lands par- being \$21.68 for grain, \$19.23 for hay, ticularly are very apt to evidence the ef- \$14.18 for pasture, and \$1.21 for other fect of hot dry weather and especially if feeds. having been well pastured during the is \$16.69. Of the total cost, 54 per cent early part of the season. It is unsafe to is charged to feeds, 16 per cent to care rely altogether during the summer months and shelter, and 30 per cent to other on meadow pasture as very few farmers items, as enumerated above. seed their land to grasses that have the forage.

equate supply of nutritious and palatable tion in prices of feedstuffs upon such feed in order to maintain good physical cost. condition and also produce a uniform flow of nourishment for their rapid growing lambs. When pasture becomes short and sun-parched and the area upon which the ewes are confined limited, a decrease in milk flow soon becomes apparent while later the ewes themselves fall off in flesh. It is a serious matter and not easy to remedy to recruit ewes that become low in flesh while nursing their lambs. It has been the general experience of most flock owners that it is much better to safeguard against the development of such conditions than to endeavor to correct them after they have once got foothold. Where a flock owner has a large area of pasture land properly fenced so that the flock can be frequently alternated from one field to another, pasture growth can be greatly stimulated. On the average farm, however, where sheep are kept in conjunction with other live stock the supply of pasture is invariably limited and other sources of supply must be relied As soon as the grain producing upon. crops are harvested the stubble can be very profitably turned over to the flock and will supply a large amount of excellent pasture. I always like to turn my sheep into stubble fields as soon as possible after the crops are removed as the sheep immediately destroy millions of weeds that otherwise would go to seed. To allow the ewes to become unthrifty while nursing their lambs invites disease and impairs their future breeding useful-ness. A large number of good ewes are ruined every season because of improper care during the nursing period. Disease always finds fertile soil to thrive in when the system is low in vitality and unable to ward off attacks. There are numerous parasitic diseases that are readily transmitted to the lambs from the ewes and unless every care is exercised to keep the strong and healthy, the nursing ewes lambs are very likely to become infested. To keep the ewes thrifty and in good flesh condition is largely a matter of affording plenty of nutritious pasture along with a light ration of grain. The amount of grain advisable to feed largely depends upon the kind of pasture the flock is grazing upon. When pasture is abundant

it is not necessary to feed grain as when insufficient to meet the needs of the flock. The grain ration can be materially reduced by giving attention to the growing of supplemental forage crops that can either be fed by soiling or pastured. It is by all means more satisfactory and economical to pasture forage crops, but the soiling method affords a larger quantity from a smaller area Shiawassee Co.

LEO C. REYNOLDS.

COST OF RAISING HORSES.

Reports have been received from about ten thousand correspondents of the Bureau of Statistics of the Department of Agriculture upon the cost of raising colts on farms to the age of three years. The average for the United States is found to be \$104.06; or, if we deduct the value of work done by the horse before he ing has passed his third year, namely \$7.52, the net eest is \$96.54; this is 70.9 per cent of the selling value of such horses, \$136.17. The cost varies widely by states, from an average of \$69.50 for New Mexico, \$71.59 for Wyoming, and \$82.47 for Texas, to \$156.60 for Rhode Island, \$149.98 for Connecticut, and \$141.80 for Massachusetts.

Itemized, the cost is made up as follows: Service fee, \$12.95; value of time

lost by mare in foaling, \$10.06; breaking to halter, \$2.22; veterinary service, \$2.04; With the heavy draft from nursing care and shelter, first year \$4.98, second The total cost for all feed is \$56.30, The total cost of care and shelter

As more than half the cost of raising ability of supplying a constant growth of a three-year-old horse on the farm is forage. Strong milking ewes must have an ad- how important is the influence of varia-

ALFALFA HOG PASTURE.

Last year we sowed out first alfalfa, lo acres in four small fields, using differ-ent amounts of seed and sowing at dif-ferent times, to learn a little about the plant and the way best suited for our farm. We used nitro-aulture obtained from M. A. C. on all but a small strip for comparison. We obtained excellent results and we have been pasturing one field with hogs. We turned them into another in which the alfalfa is nearly waist high this morning. In the one from which we turned them, the alfalfa is beginning to start from the crown again but none of it is in blossom and some weeds are coming in it. When should we clip it, and will it do harm to leave the growth on the ground or must it be removed? We want to use that ficient growth. Shiawassee Co. G. J. F.

Alfalfa can be cut as soon as the new growth is well started from the crown of the plant. It should be cut before this new growth gets tall enough so that it is clipped off with the mower. If the new growth is cut off it seems to injure the growth. On the other hand, they tell us that if alfalfa is not cut when the new growth starts it doesn't seem to do well. Now the proper thing for you to do is to turn the hogs out of this pasture and cut the balance for hay. Then as soon as the new growth starts up nicely and is five or six inches high you can turn the hogs back in. Without any question the way to pasture alfalfa is to not have too many hogs for the alfalfa field, and then when it comes time to cut, save what the hogs have not eaten for hay. In this way if you will cultivate the alfalfa with a spring tooth harrow every year, either early in the spring or before the alfalfa starts to amount to anything or directly after it has been cut for hay, go over it th'oroughly both ways, you will not injure the alfalfa and you will root out the June grass and other weeds. Then by properly fertilizing it you can keep it down to hog pasture for almost an indefinite period of time. Of course, it will do no harm to clip this field of alfalfa and leave the clippings on the ground, but if you have got any growth it is well worth saving for hay.

There is a beef famine on the Pacific coast, causing San Francisco and Los Angeles to import large quantities of Australian beef, as well as frozen mut-ton, despite the high duty that has in years past been prohibitory. The beef imported from the antipodes has been retailing for around five cents per pound below prices paid for choice domestic beef, it grading much under American corn-fed beef and more resembling Am-erican grass-fed beef of the western range country. A drouth extending over a long period on the Pacific coast has made such an unprecedentedly great shortage of beef that it became necessary to look to other sources for a beef supply, and it has been brought in from states as far east as Colorado. Montana and Texas, while an enterprising Los Angeles packing firm has been fattening cattle for supplying its own beef trade. an enterprising Los Angeles packing firm has been fattening cattle for supplying its own beef trade. The high railroad freight rates are very high, and this causes California dealers in meats to look to Australia for supplies, water rates be-ing comparatively low. The federal au-thorities in New York are enforcing the law prohibiting men engaged in interstate commerce from selling beef or mutton or veal that lacks an ante-mortem and post-mortem examination inspection by the veal that lacks an ante-mortem and post-mortem examination inspection by the government official inspectors, and this prevents bringing in any of these Aus-tralian frozen meats. The Australian por-terhouse steaks retail in San Francisco for 20 cents per pound, or five cents under prices paid for the domestic article. The California production of beef cattle has never amounted to much, and their grade has always been only fair to middling.

JUNE 14, 1913.

THE MICHIGAN FARMER

CONDUCTED BY COLON C. LILLIE. PLANTING SOY BEANS IN CORN FOR SILAGE

Seeing an article in the Michigan Farm-er some time ago on planting soy beans in corn for ensilage, would like to have you tell me how and when to plant the beans. Would it be practical to plant enough to fill a 12x30-ft. silo? Monroe Co. J. S. '

you have a good crop of corn on the land you will get a very small growth of soy beans. In other words, you can't grow two crops on the same ground in the same season and have both of them good crops. I have tried this and most every year I try it over again, and always meet with the same results. I think it is much better if you want to grow soy beans to mix with the corn silage to grow them on a separate piece of ground. Put them in rows 28 inches apart and plant about a bushel of seed to the acre and then cut them at the same time you cut your ensilage corn and mix them in with the ensilage corn. Put in three or four loads of corn to one load of soy beans, run them through the ensilage cutter and mix them as thoroughly as you can with the corn silage. The cows relish them and they furnish a cheap source of protein, and I think the plan a good one, although there is a question as to whether you cannot supply the protin in grain cheaper than you can to grow the soy beans as a forage in this way. Corn is about as cheap a crop as we can grow. We want this to furnish the carbohydrates. It is necessary for best results that we feed some grain in connection with the clover or alfalfa hay and corn silage, and we can have this grain contain a good per cent of protein to balance up the ration. I am of the opinion that to ripen, and harvest them and thresh them and grind the soy beans and feed the corn silage that we will get better results than we will if we put them into the silo, as long as we have Indian corn kicking cow is through kindness. silage as the great silage crop.

BEST SILO CORN FOR MONROE COUNTY.

After reading much of your writings, I would like your advise on the best corn to grow in Monroe county for a silo and general feed. We expect to feed all the Monroe Co. corn

J. W. As I have often stated in the Michigan Farmer, I think the best silo corn is the giving the cow pain. All she knows is to largest variety of dent corn that will mature sufficiently to make good silage in only way of defense, and consequently if any given section. There is no best va- the cow is caused pain by milking the riety. less than common field corn grown for often a cow has chapped teats, the same the silo. Some people have a specific name for ensilage corn, but it simply means dent corn that is grown a good sometimes a teat is injured by scratching ways south and has the habit of taking it on a barbed wire or something of that long time to mature because it has sort. been grown in a climate where the sea- to milk the cow it is going to hurt, and sons are long. When that corn is brought the cow is going to kick, and you can't north it requires a longer season to ma- blame her for it. In such cases as this ture than our climate, it grows very large, a healing salve should be used, or vasebut does not contain a very large per line, to soften the teat and make the incent of digestible nutrients. You can jury as light as possible. Sometimes the grow bulk of this sort of corn on an acre, but not cure it with anything of this sort you can't get as much dry matter per and only time will do the healing. In acre as you can with a corn that matures such cases it may be necessary to tie the in a shorter season. I believe the best cow's legs so she cannot kick, until the ensilage corn or the best corn to plant wound heals. for ensilage is any good variety of dent that is grown for about 100 miles south of us, and I am of the opinion that it will pay a man to buy his seed corn from a point 100 miles south of him every year where he wants the crop for the silo. It makes little difference what the name of it is as long as it is good vigorous corn. Of course, one wants prime seed, seed that has been harvested before frost and that has been harvested before frost and that has been kept from freezing all win-ter. We want it to grow and to grow vigorously. Corn grown in a given sec-tion tends to acclimate itself to that sec-tion and becomes earlier, and when it becomes earlier it doesn't grow as large. Now what we are after in silage is to get to the acre. The food nutrients which we get out of the cornstalk in silage is of us, and I am of the opinion that it

just as important as that which we get out of the ear. One is just as digestible as the other, and we don't care whether we get these nutrients in the stalk and leaves or in the ear itself. The purpose is entirely different than it is when we raise corn to husk and simply sell or feed the grain and consider the stalks of little account. Now when the corn plant properly matures, not dead ripe, but glazed and dented and not yet ready to cut up because it would shrink some, then the chemist tells us is the time it contains the largest per cent of digestible nutrients. Now the largest variety of corn that we can get that will properly mature will yield for us the largest num-Personally I don't think very much of ber of tons of digestible nutrients per the idea of mixing soy beans with seed acre and that is what we want; we don't corn and planting it for silage, because I care what the name of the corn is. As like to grow the ensilage corn pretty thick. I say, when we take corn farther south Corn is a very vigorous grower and when where the season is longer and bring it north it will grow luxuriantly but it usually will not properly mature. It hasn't the maturing habit for such a short season. When returning from Cuba I brought home some Cuban corn. This corn down there only grew to a moderate height. It was good vigorous corn. I planted an ear of it in the garden. It grew to an extreme height, some of them reaching 15 feet high, and became great large stalks. And when killing frosts came it was just nicely tasseled and silked out. You see, in Cuba it grew in a climate where it could have the whole year to mature in and when it got up into Michigan it had to hustle up and grow in about 90 or 100 days and it hadn't acquired this habit. Now that corn was not properly mature and would not make good silage, although there would be an immense bulk to the And so I repeat, that I believe that acre. the best seed for ensilage corn is a good vigorous variety of dent corn that is grown about 100 miles south of us. That corn will undoubtedly mature sufficiently to make good silage and will produce the largest growth of dry matter per acre.

HOW TO CURE A KICKING COW.

Can you give me a cure for a kicking ow? She is both ugly and nervous. Kalkaska Co, SUBSCRIBER. cow

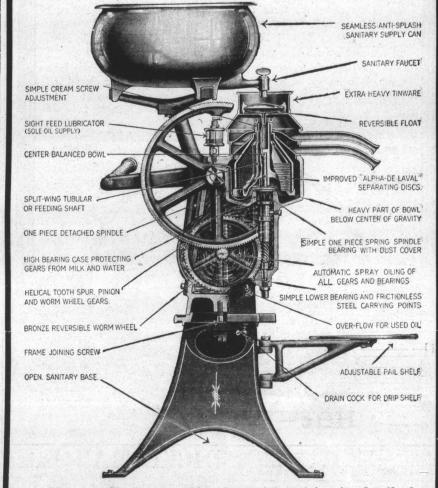
There is one thing certain, you can't cure a kicking cow by beating her with if we grow the soy beans and allow them the milking stool or abusing her in any way. Cows resent this kind of treatment. This will not subdue a cow any more a little soy bean meal in connection with than threshing subdues a balky horse, the more you whip them the balkier they The only way I know of to cure a get. Try to get on the right side of the cow. Make her believe that you are her best friend. And I think after a time the right man with the right knack can get the cow so that she will not kick. Usually there is a cause for kicking. It is usually the rsult of pain or injury. Perhaps the man who milks the cow has long fingernails or perhaps he has hard callouses on his hands. Perhaps he does not know how to squeeze the teat of the cow without resent this pain by kicking. It is her Ensilage corn is nothing more or thing to do is to remove the cause. Very as a man has chapped hands. The teats get chapped in the cold dry winds, or If this is the case, when you go an immense amount of fodder or cow gets a teat injured so that you can-In

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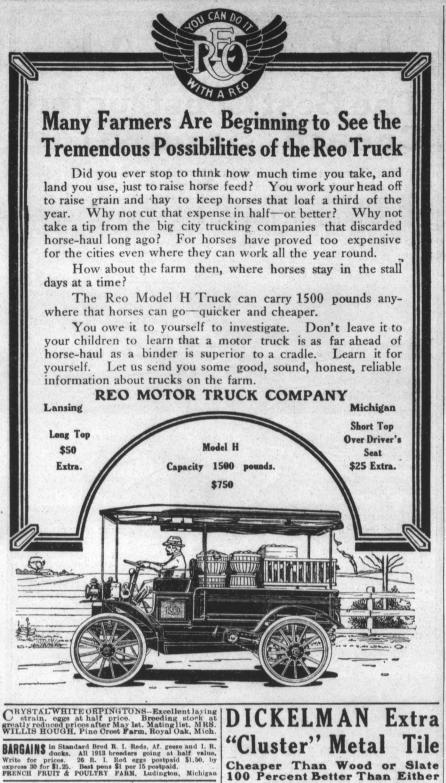
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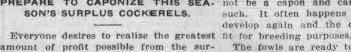
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Poultry and Bees.

plus cockerels but is puzzled as to which as the operation is over with. First they is the best method of disposing of them. should be provided with water, however. Selling them as broilers will, of course, They should not be put on fattening bring in a profit, but unless one has a food. The object is to keep them growing good market for them this is not satis- until they are about a year old. Then, a factory. In order to secure highest prices few weeks before marketing, place them they must be in prime market condition, in small yards and feed three or four and this entails quite a bit of labor unless times a day, on fattening rations. one is properly prepared for the work. The best method of disposing of them . Indiana.

for the farmer and poultryman alike, is selling them as capons. Cockerels that HOW TO MAKE AND USE A SWARM have been caponized bring a price per pound that compares favorably with that of broilers. Some markets quote them at 30@50c, and as they weigh from 8 to 12 lbs. each, according to breed, it will at feet high can be hived nearly as quickly once be seen that caponizing is profitable, and easily as when near the ground. It A large capon will bring about as much requires only a short time to make one. as a good-sized turkey, and from a small- The material, which is worth but a few er amount of feed consumed. No special cents, consists of a large bag made out feed or feeding is necessary in growing of any kind of stout, coarse cloth-such capons. In fact, they will eat anything. a sack as binding twine comes in is ex-They will eat feed that the other fowls cellent. To hold the mouth of this sack will not touch. Hence, the small feed open, a piece of smooth wire, as large or bill in raising capons.

op. of their characteristics is a fondness for hoop. A crotched stick, the prongs of little chicks. They can be taught to care which naturally stay as far or a little for a brood of chicks and make the best farther apart than the diameter of the of mothers. Cockerels caponized in the fall will be right to brood chicks early in the end of each prong is tied to the wire season when broody hens are unathe vailable. They are especially of value to the breeder of a non-sitting variety of chickens, as chicks can be hatched in an incubator and given to the capons to be cared for

Caponizing can be learned by anyone, and a little experience will enable one to become quite expert in manipulating the instruments. Procure a good set of instruments-they can be purchased very reasonably, and the work is much more easily done with a full set-follow the directions that accompany them and you will have very little trouble. Of course, your first operation may not be a success, but this should not discourage you. You are acquiring experience, and that is what is needed. It is a good plan for the beginner to watch an experienced person perform the operation if this is possible. Lacking this, the next best thing to do is to experiment on a dead cockerel, one that has been killed for table or market.

The heavy or meat breeds of chicken are better than the light or egg breeds for making capons. They should weigh from 11/2 to 3 lbs. and be in good health at time of operating. It is best to perform the operation early, if possible, be-fore hot weather sets in. While the work can be done successfully in hot weather, the results are usually not so good as earlier or later. Do the work in a room where there is plenty of light, and select a day that is bright and clear.

For the operating table a barrel or box may be used, as preferred. It should be of the right height for the operator to any bee-keeper can make. work well. A barrel turned on end anwers the purpose nicely and is usually of the right height. The fowl should be laid on its side, a cord tied around the for more than two years clip the right feet and a weight attached to the end, wing of queen in even years and the left which is allowed to hang down the side of the barrel. This is to keep the feet still and hold the fowl in position. Another string is fastened around the wings and a weight attached to this also.

have no food for about 24 hours previous dation and prevent bees from building the to the operation. Now, follow the direc- worst nuisance of the apiary-drone comb. that accompany the instruments. After the cut is made and held open by color. Some remove the upper one first, freight rate. but it is better to remove it last. If the upper one is removed first, and a loss of blood occurs, the view of the lower organ you are anxious to save all you can, feed more difficult. Do not sew up the cut as soon as harvest commences to close, When the capon is released the ribs will they are strong in bees. These often close up the wound and it usually heals make your best colonies in the spring. in ten days.

PREPARE TO CAPONIZE THIS SEA. not be a capon and cannot be sold for such. It often happens that the organs develop again and the cockerel becomes

> The fowls are ready to be fed as soon This will put them in prime market condition. O. E. HACHMAN.

CATCHER.

I will describe how to make a swarm catcher, with which a swarm clustered 30 a little larger than telegraph wire, is A capon is an unsexed male bird. A used. It is bent to a circle with the ends capon shows no inclination to crow or overlapping some inches, so that they fight. He is quiet and docile. The comb can be tied together with small wire or and wattles of the capon cease to devel- stout cord. The mouth of the sack is Capons are also easily fattened. One then securely sewed around this wire wire hoop, is used, and with stout cord hoop at points directly opposite each other, so that the sack swings free. Now the open mouth of the sack will always point upward, no matter at what angle the pronged stick may be held. The stick below the prongs should be at least two feet long, so the small end of a long light pole can be attached to it by allowing the two to overlap a couple of feet, and binding them together with two short straps. Different length poles can be used, as they can be attached or detached in an instant.

When a swarm is clustered on a small limb, the catcher can be pushed up around them, then quickly raised up, jarring the limb so that the whole swarm falls right into the sack. If they are clustered on a large limb, the mouth of the sack can be raised up under them and, by moving it one side, the bees are brought into the sack. Thus a swarm can be picked right off the body of a tree, for, by letting the mouth of the sack catch on the body of the tree below the bees, then gradually raising it up, the bees will be brushed in. Carry to the hive and invert the bag, or rather turn it inside out, and the bees will drop in front of the hive and run into it, and the hiving is done. Until tried, no one would believe from what apparently inaccessible places swarms can be secured with ope of these, when rightly made. I have tested quite a few swarm catchers, but have found none to give such thorough satisfaction as this simple device, which New Jersey.

F. G. HERMAN.

Bee-keepers who do not keep queens in the odd years. The age of queen can thus be told.

Don't bother with starters of comb foundation in your breeding or extract-Cockerels intended for caponizing should ing frames, but put in full sheets of foun-

Don't use second-hand packages for the spreaders, the male organs will be in your comb or extracted honey. You not full view. In size and shape they resem- only bear down the price of honey on the ble navy beans, and are of a yellowish market, but you indirectly raise the

Don't try to winter weak colonies. If would be obstructed and its removal made them syrup made from granulated sugar after the operation; it will close of itself. so that breeding will be kept up until If you cannot do this you had better Care must be exercised to remove the unite two or more in the fall, for a weak organs entirely or "slips" will occur. Of colony in the fall is usually a dead one course, when this happens the fowl will in the spring.

Practical Science.

TUBERCULOSIS.-(Continued).

BY FLOYD W. ROBISON. Symptoms by which Tuberculosis is Recognized.

Before describing the symptoms or signs by which tuberculosis is recognized or suspected in a living animal, it is well to say that there is no symptom which can be relied on with certainty. Any of the symptoms may sometimes be caused by some other disease and not one of them is characteristic of tuberculosis alone.

Many of the symptoms that are relied on by the human physician in reaching his opinion are not available in examining cattle. The thickness of the skin and the chest wall, for instance, makes it difficult to detect a diseased condition of their lungs by listening to the sounds made in breathing, whereas this is comparatively easy in human beings.

It must also be clearly remembered that cattle may be very badly diseased and yet show no symptoms of ill health. They may be fat and sleek, looking the picture of health, while their lungs and other organs are full of tubercles. Such cases can only be detected by the tubrculin test.

As tuberculosis may attack almost any organ of the body, we may have in each case the symptoms connected with the part affected as well as those affecting the general state of the body as a whole. We will take up in detail each of the more important symptoms suggestive of the disease.

Unthriftiness.

The animal is not doing as well as it should for the care and feed it is getting. Its coat is rough and its skin has lost its suppleness and feels harsh and thick.

Along with the unthriftiness is noticed a gradual loss of flesh as the animal gets thinner from week to week. It appears to be pining away, and such cows have been known to dairymen for a long time under the name of "piners," or "wasters." After a time they are reduced al-most to skin and bone. Some cows show clearly the symptoms of unthriftiness and loss of flesh, being very weak and thin, but are heavy milkers and even in their weak condition continue to give an abundant quantity of milk. Cows of this kind are, unfortunately, too numerous in dairy herds. The temptation to keep such cows and to use their milk is greater than some persons can resist. Such cows are a great danger to other animals that may come in contact with them, and the use of their milk in a raw state is very apt to cause tuberculosis alike in young persons and lower animals.

Cough. This symptom is only present when the disease is attacking the lungs or some part of the breathing organs. It is not a loud, sonorous cough, but rather a subdued and infrequent one, and may be heard only at such times as when the stable is first opened in the morning or when the animal is driven. At a later stage of the disease it may be heard at any time of the day. Cows do not usually appear to cough up anything. This is because they do not spit. Most of the material coughed up from the lungs is swallowed, but many tuberculosis germs escape from the mouth in the form of spray or are discharged from the nose.

Enlarged Glands. Enlargements in the region of the throat, especially when they cause difficulty in breathing, are very likely to be due to tuberculosis.

Loss of Appetite.

This symptom is not seen until the later stages of the disease, when the animal is evidently wasting. Bloating.

Diseased glands in the chest sometimes prevent the usual passage of gas from the paunch to the mouth by pressing on the gullet. In this case the cow suffers from bloating, and the paunch is often distended with gas. This, however, is not a very frequent symptom.

Looseness of the bowels, or "scouring," is seen in cattle affected with the disease in the bowels. This kind of diarrhea can not be cured by any known treatment.

When tuberculosis attacks the udder no change can be detected at first, but after a time hard lumps can be felt in some parts of the organ after it is milked out. Milk from such an udder must not be used, as it is almost certain to be teeming with germs of the disease.

Coming Features

By R. E. Olds, Designer

From this time on, when you buy a car, these are things to watch for.

Left-side drive-Center control— **Oversize** tires—

Set-in dash lights-

Free entrance in front— Right-side drive has been abandoned by the leading cars. Hereafter drivers will sit close to the cars they pass.

Skimpy tires are out-of-date. So are projecting side lamps. So is a blocked front door. These features are absent in the best cars now. They'll be absent in all cars soon.

Reo Rod Control

Note that Reo the Fifth has all these new features. And our center control is a one-rod control-an exclusive Reo feature.

All the gear-shifting is done by moving this rod three inches in each of four directions. It's as simple as moving the spark lever.

There are no levers, side or center. Both brakes are operated by foot pedals. So the driver's entrance on either side is clear. He need never dismount in the street.

When you see these features you'll not want a car without them.

Other Advances

Then the Reo marks the latest practice in some other great respects: Analyzed steel-

Vast overcapacity-15 roller bearings-

Relier bearings cost five times what common bearings cost, but they do not break. Drop forgings cost twice as much as steel castings, but they don't have flaws.

In Reo the Fifth, steel is all made to formula. The gears are tested in a 50-ton crushing machine. The springs are tested for 100,000 vibrations.

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These things are costly. Oversize tires cost us \$60 extra. Our unusual features, all combined, add \$200 per car to our cost.

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And these things are essential in a car that endures. A car without them may run well for a while, but the second season repairs and troubles come.

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RATES OF ADVERTISING

40 cents per line agate measurement, or \$5.60 per inch, each insertion. No adv't inserted for less than \$1.20 per insertion. 0.7 No lottery, quack doctor or swindling advertise-ments inserted at any price. Entered as second class matter at the Detroit, Mich-igan, postoffice. igan, postoffice.

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DETROIT, JUNE 7, 1913.

CURRENT COMMENT.

Size of Farm vs. difference of Profit.

which is most profitable. According to money is found in a recent report from a recent Washington report the farm western Michigan, in which the state-management bureau of the United States ment is made that an installment of Department of Agriculture has attempted to settle this much mooted question by an investigation of many farms in Michigan and other states to determine the relation between the size of the farm and the profit derived from it. This report states that a minute study of some farms in Newaygo county revealed 600 the fact that many of the owners of small farms were not making expenses, and the general conclusion was reached from the investigation that 160 acres is the smallest unit of land upon which farming can be made a profitable venture. The supplementary statement is made, however, that "as a general thing the farms in Newaygo county are of fair size and their operators are earning a fair return on their investment."

This report was published in the form of an interview from Dr. Spillman, head of the Farm Management Bureau of the United States Department of Agriculture, written by a leading Washington newspaper correspondent and published in a Detroit paper. The interview was referred to Dr. Mumford, state leader in farm management and field studies and demonstrations in Michigan, for an opinion as to its accuracy. He replied with the following statement: "To my knowledge there has been no such investigation in Newaygo county, but there was made, last summer, by the Office of Farm Management, a study of about 630 farms in Lenawee county. We have not yet received a tabulation of these results so that it is difficult for us to comment upon them at this time. * * * I do not know what Professor Spillman's statements were, other than what is reported in the article which you sent me but I am inclined to think that he would qualify clined to think that he would qualify those statements in such a way that they would be made to apply to particular ing the same period of the last five years.

would be made to apply to particular types of farming rather than to farming in general."
It chus seems probable that this report which has been circulated in the Michigan agriculture.
It chus seems probable that this report of these investigations in Michigan. If so it is to be regetted as tending to discredit the farm management work which is being under taken in this state and which already promises much in the way of been to mitigan agriculture.
It appears that similar investigations are being medie to the transition of the santary reasons for such a course.
It appears that similar investigations are being medie to the results are soon to be published by country who are now buying small tracts of land
Wind general states and whole already promises much in the maxima contraction of the source are sone time in test of the country where there are the the results are soon to be published by adder and who are now buying small tracts of land
Wiend general states and whole aready provide the tart the results are soon to be published to the transition of the source at some time in their is now have resorted to all the maximum of the country where there and the most significant of all the fars to results are soon to be published to the country where there and that our youth may be encouraged who the same name, was also taken, it symbolizes. This is an appeal which is several states and who tendered the terms are now buying small tracts of land

which they never have seen in the belief kinds of expedients to rid the premises igan farms to be 92 acres, including un- farm. improved land, and a fraction over 62 acres each of improved land. If the as- prize Farming. sertion accredited to Dr. Spillman in this press report were true, it must logically boys' and girls' agricultural clubs the on the whole, been an unprofitable venture for the farmers of the state.

THE MICHIGAN FARMER

the factor of the personal equation is on intere of the organized provides are thousands of successful farmers in proposition with a view to pointing out, the successful farmers in proposition with a view to pointing out, the successful farmers in proposition with a view to point a successful farmers in proposition with a view to point a successful farmers in proposition with a view to point a successful farmers in proposition with a view to point a successful farmers in proposition with a view to point a successful farmers in proposition with a view to point a successful farmers in proposition with a view to point a successful farmers in proposition with a view to point a successful farmers in proposition with a view to point a successful farmers in proposition with a view to point a successful farmers in proposition with a view to point a successful farmers in proposition with a view to point a successful farmers in proposition with a view to point a successful farmers in proposition with a view to point a successful farmers in proposition with a view to point a successful farmers in proposition with a view to point a successful farmers in proposition with a view to point a successful farmers in proposition with a view to point a successful farmers in the same point. The successful farmers in the same point is proposition with a view to point the successful farmers in the same point. The successful farmers is proposition with a view to point the successful farmers in the same point. The successful farmers is proposition with a view of the successful farmers in the view of the same point. The successful farmers is proposition with a view of the successful farmers in the view There has ever been a proposition in two of the best agricultural opinion counties in central Michigan. Another among good farmers as evidence of the present tendency of finanto the unit of land cial institutions and capitalists to hoard

per cent lower than in 1910 and 17.3 per cent lower than in 1909. If this is a contributing cause to the present situation, however, there is hope in the fact that prices for agricultural staples appear to have reached the low mark and are now in the process of reaction, since the same report states that the average prices received by producers for staple crops in-creased about 4.3 per cent from May 1 to June 1 of the present year, as compared with an increase of 1.2 per cent

that farmers are making money so rap- of them, most of which, however, resulted idly that they cannot go wrong on such in failure. In fact, there is but one ceran investment. If the publication of sta- tain method of eliminating the rat nuitistics resulting from this investigation sance, and that is to starve out the rats. accomplishes the result of disabusing the New buildings should be constructed so public mind of the impression that the that they will be rat proof, and old buildfarmers of the country are coining mon- ings, especially where grain or other proey, a result worth while will have been ducts which the rats can utilize as food accomplished. It would appear, however, are stored, should be made rat proof, that the conclusion above referred to, Then, and only then, will the rat nuithat farming on less than 160 acres of sance be eliminated. And the elimination land is an unprofitable venture is ill ad- of the rat nuisance by this means and by vised, else it is a sad commentary on removing piles of old material or rubbish Michigan agriculture. The last census which harbor rats will be found a profitfigures show the average size of all Mich- able and satisfying investment on any

> It appears that the system of prize farming used to stimulate interest in

follow that agriculture in Michigan has, country over has outgrown its original scope in some sections of the south where this movement originated. According to The trouble with investigations of this a recent estimate made by the Farmers' sort, and the reason why they cannot be Educational and Co-operative Union, of expected to settle a problem of this kind Texas, over \$250,000 has been spent in definitely, is that the personal equation of prize farming in that state during the the farmers themselves is not taken into past five years. This has been done largeaccount. Probably a majority of the more ly through the interest which business capable farmers who began with small men have taken in the proposition, and farms have added to their holdings until this fact has caused the executive comthe factor of the personal equation is on mittee of the organization above menthe side of the larger farm, yet there tioned to make an investigation of the thousands of successful farmers in proposition with a view to pointing out

ren county, who interested himself in the task of undertaking to induce the railroads to transport the veterans and hold over their claim for the short-age until the Legislature could make another appropriation. This he succeded in doing by personally guaranteeing the payment of same in case the Legislature fails to make the appropriation. Thus Michigan's veterans who participated in Michigan's veterans who participated in opportunity to review this stirring period of their lives on the scene of action. While the state pays the transporta-tion of the veterans, the government fur-nemt, and the state of Pennsylvania feeds them while there. For them it will be celebration of the National Holiday which celebration of the National Holid

HAPPENINGS OF THE WEEK.

National

National. Four persons were killed and two others fatally injured when a fast freight slue frieds, w. Va., Sunday morning and struck a residence. William Merritt, a resident of Redford, Mich., was run down and instantly killed by an interurban car at Monnier road and frand River avenue, just outside of Detroit ast Sunday night. The United States Senate "lobby in-westigating committee" continues to take testimony this week. It is expected that the work of examining the senators will be completed by the middle of the week and that following this part of the pro-gram the calling of men supposed to be intervent of the lobby itself, will be given the effect of the effort will be, are con-ieut. The labor troubles of the Pere Mar-

will need to complete its task and what the effect of the effort will be, are con-jectural. The labor troubles of the Pere Mar-quette railroad are still unsettled, and it is possible that the dissatisfied workmen will extend the "walkout" to other branches of the company's interests than the shops, although it appeared at the meeting held in Grand Rapids, Sunday, that some of the unions did not favor calling a strike because they felt that the grounds advanced for such a move did not warrant the action. The engineers were most insistent upon remaining at work, while the boilermakers would have gone out eagerly. A meeting of the com-pany's men was also held at Saginaw where the idea of arbitrating differences with the company seemed to prevail. Glenn DuBois, editor of the Charlevoix last Sunday morning at the age of 40. He had been ill for several months. The weather station at Detroit reports

SHEEP.

HOOS.

Farm Commerce.

FARMERS SHOULD CONTROL THEIR lump sum. This, of course, seems a very OWN CO-OPERATIVE ENTER-PRISES.

When a stranger comes into your com- rest assured that no one is doing this munity and poses as working for the work for nothing and that no outside benefit of the people and begins to pave party can do it as cheaply and effectively the way whereby the "shackles that bind as the farmers of the community. These you to an expensive system of distribut- promoters are not working for their ing your farm products may be broken," health; they usually get a good profit, watch him. If he is congenial, persua- which the farmers pay. sive and what we are in the habit of call-ing "clever," then watch him all the more. once hopeful ventures, over our state and phasize-do your own organizing, and orcountry to permit us to withhold from der everything needed direct from a reour readers words of caution about men liable creamery supply house. The creamwho are going the rounds promoting or- ery organized by the farmers' own iniganizations purporting to aid in improv- tiative not only is better and cheaper ing the marketing conditions of communi- but is on a more substantial foundation scores of old buildings that once housed creameries which have since failed simply because a promoter came along and in the community is not developed suffienthused the people of a community over ciently to make possible the organization the dairy business, regardless of the fit- of a creamery by their own efforts asness of the community for that line of sisted by disinterested outside help, such farming, pointed out the advantages that as that from the experiment station offiwould accrue if a co-operative creamery clais and others vitally interested in the were built and conducted, and then in permanent development and prosperity of his most artful manner suggested that the dairy industry, the chances are that the contract for the building and the ma- the creamery promoter cannot develop chinery be given to a particular firm at enough interest and mutual confidence a price about twice the value of the among the farmers to make the co-opproperty. Now there are other ways in erative creamery a success after the prowhich these men get money out of a moter's influence is withdrawn. community but this is the way that pro-moters of creameries got money out of THE OUTLOOK FOR A GOOD CROP OF Michigan men in years gone by. And so it is a safe principle to watch when a

capable stranger comes into your town to urge the residents to undertake some business proposition, and conclude that he is not doing the work for his health. Had the farmers of the communities where the creameries failed made an investigation as to the cost of creameries and put their orders with some reliable dairy supply house it is safe to say that fewer of them would have failed, since there would have been only about one-half the capital to supply and pay interest on.

The fact that we are talking of strangers must not be lost sight of, for there are in our state and over the country many public spirited men who feel the true advantages afforded by the organization of farmers in large business units for mutual welfare, and are willing to sacrifice time and expense even, that those advantages may be brought to others whose business training does not enable them to understand the benefits of co-operation; but these men are not the kind that will thrust themselves upon you-they come as a guest and merit your closest attention and deepest consideration. These men are true apostles of the gospel of co-operation.

Regarding this whole matter the experiment station of Nebraska has pub- for the bees to fly freely.

<text><text><text><text>

satisfactory way, as it relieves the members of the creamery association of all the preliminary work. One can, however,

The organization is not as strong as if it had been created entirely by and for There are too many wrecks of the community; therefore, again I em-In Michigan there can be found from the very first and better able to weather successfully any little storm that may come. If the sentiment and interest

HONEY.

With the exception of California the outlook for the 1913 honey crop is prom-ising in all the main producing districts of the country. Because of the liberal rains and the congenial weather early in the season, white clover got a good start and in spite of the cooler days and nights that have prevailed since the crop has made splendid development, which condition leads to the belief that there will be an abundance of nectar for the bees to gather. Even should dry weather continue it is the belief of well informed men that the clover is so far along that the influence on honey production from the plant will not be detrimental. In the southern part of the country there is every indication that a good crop will be taken from the hives, while the usual amount of honey will likely be produced

by the bees of the alfalfa regions, In California the conditions seem differ-There one thing and another milient. tated against the bee men and an absolute failure is predicted. Dry weather, cold periods and untimely frosts affected not only the plants upon which the bees work but the bees themselves were hindered from performing their labors Oranges blossomed when it was too cold

periment station of Neuranne lished a bulletin containing some whole-some reading along this very line which we are appending. The information is as applicable to other business enterprises as to creameries and should be weighed carefully. The bulletin says: As a result of efforts put forth by farm organizations for co-operation along var-ious lines, there is now much agitation favor of the building of small cream-to favor of the building of small cream-to a transmission to the building of small cream-to the building of small cream



A Yearling Sow—bred for July farrowing, also a choice lot of Spring Pigs for sale. Either sex. A. A. PATTULLO, R. No.1 Deckerville, Mich. 0. I. C. -Big growthy type. last fall gilts and this spring farrow to offer. Very good stock. Scott No. 1 head of herd. Farm ½ mile west of depot, OTTO B. SCHULZE, Nashville, Mich. O. I. C'S^{-A} FEW BRED SOWS FOR SEPTEMBER FARROW. GEO. P. ANDREWS, Dansville, Ingham Co., Mich. O. I. C. SWINE Write me for Pigs, pairs and trios, not akin. Have a number of service males of good type. Write me describing your wants. A. J. GORDEN, R. No. 2 Dorr. Mich. THIS 5 0 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 fin-est 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. Orders booked for Apri C.J. THOMPSON, Rockford, Michigan O. I. C's-Bred sows, March pigs pairs and trios. Buff Rock Eggs \$150 per 15 FRED NICKEL R. 1, Monroe, Michigan. **0. I. C'S** ready. 100 to select from. Attractive prices on young stock. H. H. JUMP, Munith, Mich. **O. I. C.** -March pigs ready to ship, the long growthy kind with plenty of bone, at farmers prices. A. NEWMAN, R. I, Marlette, Mich. DUROC-JERSEYS-Fail and Spring boars from all ages. SPECIAL BARGAIN in summer pigs. Brookwater Farm, R. F. D. No. 7, Ann Arbor, Mich. DUROC JERSEYS-Fall Gilts bred or open. Spring pigs pairs not akin. F. J. DRODT, R. No. 1, Monroe, Michigan. MALES ALL SOLD BUT ONE^{-Fancy fall gilts for sale.} JOHN McNICOLL, Station A, Bay City, Mich. Route 4, Box 81. DUROC JERSEYS—BRED GILTS FOR SALE. CAREY U. EDMONDS, Hastings, Michigan. DUROC JERSEY SPRING PIGS of either sex for sale, Pairs not akin, also 2 Reg. Percheron mares, 2 years old, both grays, M. A. BRAY, Okemos, Mich. POLAND CHINAS-Both Western and Home Bred. Either sex, all ages, Prices right. W. J. HAGELSHAW, Augusta, Mich. **Butler's Big Bone Poland Chinas** We have a few nice fall boars, also some big sows bred for fall farrow. Our hogs are all cholera proof. J. C. BUTLER, Portland, Michigan. Big Type Poland China Pigs at close prices. Eggs Rocks, \$1 per 15. ROBERT NEVE, Pierson, Mich. Large Type P. C. -Largest in Michigan. Bred gifts and Oct. pigs that have size, bone and quality. Write your wants or come and see. Expense paid if not as ro-presented. Free livery. W.E. Livingston. Parma, Mich. POLAND CHINAS -Either sex, all ages. Some thing good at a low price. P. D. LONG, R. No. 8, Grand Rapids, Michigan P. C. BOARS AND SOWS-large type, sir A. A. WOOD & SON, Saline, Michigan. LARGE Yorkshires-Choice breeding stock, all ages not akin, from State Fair prize-winners. Pedi grees furnished. W. C. COOK, R. 42 Box 22, Ada, M ch. Lillie Farmstead YORKSHIRES Spring bred gilts all sold. Gilts bred for next August farrow. September pigs either sex, pairs and trios arrow. September pigs either sex, pairs and trio tot akin. Orders booked for spring pigs. COLON C. LILLIE, Coopersville, Mich **COMPLETE DISPERSION SALE OF HOLSTEINS** On Thursday, June 19, I will offer at Public Sale my Entire Herd of 53 purebred Holstein-Friesian Cattle. This herd consists of 27 choice females of milking age: 13 heifers and 13 heifer calves. Four of the 2-year-old heifers are from dams with A. R. O. records up to 24.366 lbs. The cows are large animals in good condition and of desirable type and breeding. All are heavy producers although only a few have been officially tested. They are capable of making good records if given the opportunity. Catalog ready about June 5. All animals over six months will be tuberculin tested if desired. Sale begins at 10 a. m. Write for catalog. F. W. SAVAGE, Belleville, Michigan,

Markets.

GRAINS AND SEEDS.

June 11, 1918. Wheat.—The decline in wheat values that started over two weeks ago has con-tinued to the present time, the amount taken from the prices during the past week totalling 3c for cash and only a fraction for futures. While two months ago prices were largely dependent upon conditions in Europe, today crop pros-pects in this country seem to be the big item in making values, and the present decline is ascribed to the crop now grow-ing which promises to be large. The government crop report places the con-dition for all wheat at \$7.2 as compared with a ten-year average of 86.1. The av-erage yield for the country is estimat-at 15 bushels per acre. Of course, there are chances that the plant may be further damaged than it already has been in some western states, but each favorable day adds to the security of the claims now made. It seems to be the opinion of wheat merchants that the present trade has two sides and that prices under pre-valing conditions ought to remain some-where in the vicinity of those now ruling. With stocks in Chicago greatly reduced, buying of cash at Minneapolis and Du-luth for foreign shipment, and accidents to the spring wheat crop to consider, there are chances for the price level to move upward as well as downward. One year ago the price for No. 2 red wheat on the local market was \$1.14½ per bu. Quota-tions for the past week are: No. 2 No.1 Red. White. July. Sept. Thursday105 1.04 9122 9125 June 11, 1913.

Red.	White.	July.	Sept.
Thursday1.05	1.04	911/2	911/2
Friday1.05	1.04	91 3/4	9134
Saturday1.041/2	1.031/2	911/4	911/4
Monday1.04	1.03	913/4	91.34
Tuesday1.031/2	1.021/2	911/4	911/4
Wednesday1.04	1.03	921/4	921/4
Chicago (June 10)	-No 2	red	wheat.

Wednesday ..1.04 1.03 92¼ 92¼ Chicago, (June 10).—No. 2 red wheat, 99¾ @\$1.03½; July, 90¼c; September, 89¾c; December, 92½c per bu. Corn.—There has been enough strength in the corn deal to overcome the decline in wheat and at some points work to a fractional higher level. The cold weath-er has been discouraging to the growing crop and in many sections where the crop was well along damage is reported. It is probable, however, that the extent of this damage is not large, but observations lead to the generally accepted theory that corn having a slow start usually does not attain the size and give the yield that crops having a rapid growth from the be-ginning does, and so many dealers hold bullish ideas regarding the future. There is also good buying at present which, with short supplies, gives the trade a firm footing. The local price for No. 3 corn a year ago was 77½c per bu, Quo-tations here for the past week are: No.3 No.3 Corn. Yellow.

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No. 3 yellow, 58½@59c; Sept., 59¼c; Dec.

o per bu. Oats.—This grain followed wheat rather Oats.—This grain followed wheat rather than corn and prices have suffered a de-cline of a cent. The government crop report gives the condition of the grow-ing crop as 91.1 as compared with the ten-year average of 88.4, and the acreage is placed at 1.1 per cent above that of 1912. One year ago the local price for standard oats was 57½ per bu. Last week's quotations are: No. 8

Standard. White. 41 401/2 Thursday 42

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uesday																			41		. 40
Vednesda																			41		40
Chicago	~																		2	white	oats

Chicago, (June 10).--No. 2 white oats, 40@401/2c; standard, 39@40c; Sept., 37%/c; Dec., 38%/c per bu. Beans.-The local market is doing nothing in the bean deal and the nominal quotations published by the board are the same as a week ago, or \$2.05 per bu. for prompt and June shipment and \$2.10 for August. The supply seems to be

ample. Chicago.—The condition of this trade remains the same as last week with prices unchanged. Pea beans, hand-picked, are quoted at \$2.35; choice. \$2.30; prime, \$2.20; red kidneys, \$2, and white kidneys \$2.50 per bu.

FLOUR AND FEEDS.

Flour.—Jobbing lots in ½ paper sacks are selling on the Detroit market per 196 lbs. as follows: Best patent, \$5.70; sec-ond, \$5.20; straight, \$5; spring patent, \$5.10: rye flour, \$4.60 per bbl.

ond, \$5.20; straight, \$5; spring patent, \$5.10; rye flour, \$4.60 per bbl.
Hay.—No change is noted in hay values at this point. Carlots on the track at Detroit are: No. 1 timothy, \$14.50@14; No. 2, \$12@13; light mixed, \$13.50@14; No. 1 mixed, \$12@13 per ton. Chicago.—Values about \$2 lower. Choice timothy, \$16@16.50 per ton; No. 1, \$14@15; No. 2, \$12@13; No. 3 and clover mixed, \$7@11; clover, \$\$8@12; alfalfa. choice.
\$16@17; do. No. 1, \$14@15; do. No. 2, \$11
@13 per ton.

Butter,-There has been little change and in butter since this time last week. El- heavy

THE MICHIGAN FARMER

Infer Mitchied And Processing States of the states of t

FRUITS AND VEGETABLES.

FRUITS AND VEGETABLES. Apples.—The volume of business is not large but the trade is highly satisfactory to sellers. Detroit quotations are: Fancy, \$4@5; ordinary, \$3@4 per bb]. Chicago.—The best grades of apples are steady at last week's values. Stan-dard varieties, \$3.50@6 per bb]. Strawberries.—Recent frosts have dam-aged the crop and prices are higher and firm with average stock going at \$4 per bushel. **Potatoes.**—On practically every import-ant market within reach of Michigan po-tato growers a heavy decline in prices is reported. This decline is due to heavy receipts—the predictions that the recent spurt in values had removed practically the whole surplus from farmers' hands, proved to be erroneous. Local prices have dropped to the figures that prevailed be-fore the recent advance. Michigan stock now selling at 30@35c per bu, in car lots. Chicago.—Market easier under heavy receipts. The offerings last week reached 558 cars compared with 321 cars the pre-vious week and 177 cars for the corres-ponding week last year. Under such enormous supplies prices could not stand and consequently they suffered another heavy decline. Quotations range from 25 @30c per bu. @30c per bu.

GRAND RAPIDS.

The strawberry crop in this section will be very light, the freeze of May 9-10 evi-dently having seriously injured the early crop, and it is feared the frost last Sun-day night has hurt the late ones. Only one crate of home-grown berries was of-fered on the city market Tuesday morn-ing, which readily brought \$3.50. Aspar-agus is up to \$1, as compared with 75c last week. Pieplant and spinach sell at last week's prices, 40c and 50c respec-tively. Lettuce is lower, selling at 50c. Hay is selling on the market at \$11@14. Dressed hogs are bringing 10@11c; live poultry 10@12c. In the grain list wheat is lower, No. 2 red selling at \$1, corn at 62c and oats at 42c.

THE LIVE STOCK MARKETS.

Buffalo.

Buffalo. June 9, 1913. (Special Report of Dunning & Stevens, New York Central Stock Yards, East Buffalo, New York). Receipts of stock here today as follows: Cattle, 160 cars; hogs, 110 double decks; sheep and lambs, 25 double decks; calves 1700 head

Neep and minutes, 25 double decks, carves 1700 head., With 160 cars of cattle on our market here today, and 21,000 reported in Chi-cago, the weighty cattle sold from steady to about 10c higher than last week, qual-ity considered. There were a few loads of the best cattle here today that has been shown here in the last 60 days, and, of course, they brought considerable more money than any cattle sold last week. The difference in the quality and finish making the differences sold from about 1700 head. making the difference in price. The handy butchering steers sold from about steady to 10c lower. A good deal of grassy stuff of all kinds coming now, and we have to quote that kind off from 15@ 25 cents.

we have to quote that kind off from 15@ 25 cents. We quote: Best 1350 to 1500-lb. steers, \$8.25@8.50; one fancy load at \$8.75; good to prime 1200 to 1300-lb. steers, \$8@8.30; do. 1100 to 1200-lb. do., \$7.85@8.15; coarse and plain weighty steers, \$7.50@7.85; good to choice handy steers, \$7.50@ 8.15; medium butcher steers, \$7.75@7.90; light common butcher steers, \$7.75@7.90; light common butcher steers, \$7.75@6.75; good butcher cows, \$5.75@6.25; light do., \$5.25 @5.75; trimmers, \$4@4.25; best fat heif-ers, \$7.25@7.75; medium butcher heifers, \$7.25@7.50; light and common heifers, \$6.50@6.75; stock heifers, \$5.75@6.25; light and common stockers, \$5.50@6; prime heavy bulls, \$7.25@7.50; best butcher

ed, are quoted at 18%@11%c; do., cases kind. returned, 16@17c; ordinary firsts, 17%c; firsts, 18%c; storage packed, firsts, 22c per dozen. New York.—Steady and unchanged. Fresh gathered extras, 22@23c; western gathered, whites, 20@23c per dozen. Poultry.—Business in the local market Received today21,000 55,000 15,000 Same day last year..13,544 44,606 16,474 Received today21,000 55,000 15,000 Same day last year..13,544 44,606 16,474 Received last week..45,277 155,276 96,710 hardly sufficient to establish quotations. Broilers quoted lower and old hens high-er. Quotations are: Live.—Broilers, 270 old roosters, 11@12c; turkeys, 17@18c; geese, 12@13c; ducks, 17@18c per lb. Chicago.—Chickens lower; ducks and geese higher. Quotations on live are: guoted hens, \$4 per dozen. FRIULTS AND VEGETABLES

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showed a great gain for the week, and for the were more or less lower except for fat stock, while spring lambs declined fully 50c, selling at \$6@8.50 per 100 lbs. Shorn flocks closed as follows: Lambs, \$5@7.40; yearling wethers, \$5@6.35; weth-ers, \$4.25@5.75; ewes, \$3@5.10; bucks, \$3.25@4.25.

NATIONAL CROP REPORT.

The crop reporting board of the bu-reau of statistics of the Department of Agriculture, from the reports of the cor-respondents and agents of the bureau report on the condition and area of the leading crops of the country as follows: Spring Wheat.—Acreage, 18,663,000; con-dition, 93.5 per cent of a normal; indica-ted yield, 13.5 bu, per acre. Winter Wheat.—Condition, 82.5 per cent; indicated yield, 15.9; production, 492,000,000. All Wheat.—Area, 49,601,000; condition, 87.2 per cent; yield, 15; production, 744,-000,000 bu, as compared with 730,000,000 bu, for 1912. Dats.—Area, 38,341,000; condition, 87; pield ec.

000,000 bu., as compared bu. for 1912. Oats.—Area, 38,341.000; condition, 87; yield, 28.8; production, 1.104,000,000 bu., as compared with 1.418,000,000 bu. in 1912: Barley.—Area, 7,255,000; condition, 87.1; yield, 24.4; production, 177,000,000. Rye.—Condition, 90; yield, 16.5. Hay.—Condition, 87.5. Pastures.—Condition, 89.2.

MICHIGAN CROP REPORT.

MICHIGAN CROP REPORT. Wheat.—The average condition of wheat is 83 in the state and southern counties, 81 in the central counties, 85 in the northern counties and 92 in the upper pe-ninsula. The present condition of wheat is practically the same as reported on May 1. The condition one year ago was 58 in the state, 48 in the southern coun-ties, 60 in the central counties, 73 in the northern counties and 94 in the upper pe-ninsula. The per cent of wheat sown that will be plowed up because winter killed or otherwise destroyed is 5 in the state and southern counties, 6 in the central counties, 4 in the northern coun-ties and 2 in the upper peninsula. The damage by Hessian fly is 5 per cent in the state, 8 in the southern counties. And 2 in the central and northern counties and in the upper peninsula the state and southern counties, 74 in the state and southern counties, 74 in the state, 76 in the southern counties, 74 in the state, 76 in the southern counties, 74 in the state, 76 in the southern counties, 74 in the state, 76 in the southern counties, 74 in the state, 76 in the southern counties, 74 in the southern counties, 85 in the northern counties and in the upper peninsula 94. One year ago the condition was 78 in the state, 76 in the southern counties, 74 in the southern counties, 85 in the northern counties and in the apper peninsula 94. The southern counties, 85 in the northern counties, 99 and in the state, 99 in the southern counties, 86 in the northern counties, 87, in the central and northern counties and upper peninsula. The condition of corn as state, 82 in the southern counties, 87, in the central and northern counties, 88, in the state, 82 in the southern counties, 89 in the state, 90 in the southern counties, 89 in the southern counties and 97 in the upper peninsula.

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THIS IS THE FIRST EDITION.

In the first edition the Detroit Live stock Markets are reports of last week; L all other markets are right up to date. 1 w Thursday's Detroit Live Stock markets are given in the last edition. The first edition is mailed Thursday, the last edi-tion Friday morning. The first edition is mailed to those who care more to get the paper early than they do for Thursday's Detroit Live Stock market report. You may have any edition desired. Subscrib-ers may change from one edition to an-other by dropping us a card to that effect. Subscriber 2000 and the stock state of the stock state

DETROIT LIVE STOCK MARKETS.

Thursday's Market. June 5, 1913.

Cattle.

DETROIT LIVE STOCK manned and a start of the start of the stock of the start of the stock of the

\$6.75. Haley & M. sold Mich. B. Co. 2 bulls av 1020 at \$6.50, 2 do av 925 at \$6.60, 1 cow weighing 1220 at \$6.25, 2 cow and bull av 990 at \$6.70; to Heinrich 8 steers av 1090 at \$7.85, 1 cow weighing 1020 at \$6.75, 1 bull weighing 540 at \$5.50; to Bresnahan 9 bulls av 650 at \$6.35; to Mich. B. Co. 12 steers av 1104 at \$8.15, 1 do weighing 730 at \$7. Lowenstein sold Goose 7 cows av 963 at \$6. Same sold Bresnahan 7 butchers av

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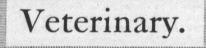
THE MICHIGAN FARMER

2 av 140 at \$10; to Goose 15 av 150 at \$9; what can be done for garget in cow. A. to Barlage 4 av 155 at \$10, 11 av 175 at C., Bancroft, Mich.—Give 1 dr. powdered

Long sold Nagle P. Co. 4 av 155 at \$10, weighing 130 at \$8. Groff sold Goose 14 av 125 at \$10.

Milch Cow Sales. Bishop, B. & H. sold Bresnahan 1 cow and calf at \$55, 2 cows and calves at \$130, 2 cows and calves at \$52, cows and calves at \$50, 1 cow and calf at \$60, 2 cows and calves at \$125, 3 cows and calves at \$171 calves at \$50, 1 cow and calf at \$60, 2 cows and calves at \$125, 3 cows and calves at \$171. Same sold Converse 1 cow and calf at \$70, 2 cows and calves at \$140. Same sold Hely 4 cows and calves at

Same sold Converse 1 cow and calves at \$10.
 Same sold Hely 4 cows and calves at \$10.
 Same sold Hely 4 cows and calves at \$10.
 Sheep and Lambs.
 Beenging 2000 and 20



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

Advice through this department is free to our subscribers. Each communication should state history and symptoms of the case in full; also name and address of writer. Initials only will be published. Many queries are answered that apply to the same allments. If this column is watched carefully you will probably find the same aliments. If this column is watched carefully you will probably find the desired information in a reply that has been made to someone else. When reply by mail is requested, it becomes private practice, and a fee of \$1.00 must accompany the letter.

c., Bandrott, Mich.—Give 1 dr. powdered sulphate iron, ½ oz. ground gentian, ½ oz. ground cinchona, 1 dr. ground nux vom-ica at a dose in feed two or three times a day. Apply one part iodine and ten parts fresh lard to caked quarters every day ay or two. Injured Navel.—One of my colts jumped

Injured Navel.—One of my colts jumped over partition and scraped navel, making an ugly sore which I have been unable to heal. The remedy you prescribed for stocked leg soon effected a cure. W. A. B. Benzonia, Mich.—Apply one part iodo-form and ten parts boracic acid, covering sore with some oakum and an elastic band around body to hold cakum pad on sore. It may not be necessary to use this appliance. Weakness.—Have a four-year-old colt that is thin, has poor life, lacks vitality

(Continued from page 665).

(Continued from page 665). layed farmers for a whole week in get-ting on to their fields to work. Some had just planted and the ground was so sat-urated with water and kept cool that the ground had to be refitted and planted. Some were just ready to plant and had to refit their ground, so here, the 7th, there is a good deal of corn to be plant-ed yet. The fore part of May was too cold for making any amount of growth in grass, so hay will be a light crop though the heavy rain has helped the meadows some and has pushed the oats along. Cows are generally looking well, hogs and small pigs are bringing good money. Light frosts June 7 and 8. Indiana.

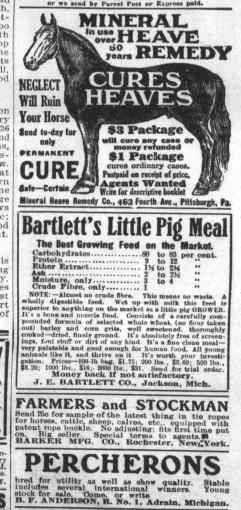
Indiana.

Indiana. Laporte Co., June 9.—Heavy frost on the morning of the 8th and 9th; mercury 34 degs. before sunrise on the 8th; 36 degs. this morning. Keen cold wind during the day but still at night. Beans, corn and potatoes showed no injury yes-terday and show no effect of frost now. How the wheat crop is is a problem that time alone can solve. Early planted corn is being replanted. Cutworms and extreme cold wind did damage in most fields. Large are doing well. Butter, 35c: eggs, 20c; good demand. Cutlivating corn and planting potatoes is the work at present. Fuil crop light. Ohio.

Ohio. Carroll Co., June 5.—Sheep shearing is about over. Farmers busy cultivating corn and potatoes; corn came up nicely, and is growing well, but the potatoes were slow in coming up. The frost which we had about a month ago hurt the wheat and rye a good bit. Plenty of rain this spring.

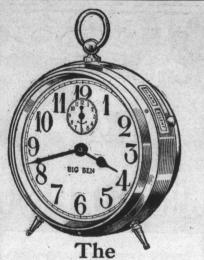






FOR SALE year old Belgian Stallion

Sound and right in every way. Also a 3-year-old JACK. Or will trade for other live stock and real estate. Address W. G. Himmelwright, Frankfort, Ind.



Biggest Thing in the Clock Business

Big Ben is the biggest thing today in the alarm clock business.

He is only two years and a half old, but he's already getting more work from the States than any clock alive. In two years and a half time, 18,000 Jin two years and a hair time, 16,000 jewelers - 70% of the total number of United States watchmakers — have already adopted him. Two million and a half families leave it to him to call them up in the morning. Two million and a half families use him all day long to tell the right time by.

He is really two good clocks in one— a crackerjack of a timekeeper and a crackerjack of an alarm.

Big Ben stands seven inches tall. He is triple nickel-plated and wears an He is triple nickel-plated and wears an inner vest of steel that insures him for life. His big, bold figures and hands are easy to read in the dim morning light. His large, comfortable keys almost wind themselves. He rings five minutes steadily or ten intermittently. If he is oiled every other year, there is no telling how long he will last.

He's sold by 18,000 watchmakers. His price is \$2.50 anywhere in the States, \$3.00 anywhere in Canada. If you can't find him at your jeweler's, a money order mailed to *Westclox, La Salle, Illinois*, will send him anywhere you say, express charges prepaid.



Home and Youth

A BOY'S SOLILOQUY

BY CHARLES H. CHESLEY.

I seem to be a hunting for trouble right man, I'll be convinced and marry John. along. Tis easy to remember the things I should Look at Jennie Jenkins. I don't see that

a wonder why the apples in Johnnie Cres-sy's yard
Are nice and sweet and juicy, while ours are sour and hard.
Pop says they are alike, but I can't see it just that way,
And so I get a scolding 'bout twenty times a day.
a wonder how shi's got a sick husband, two bables, no money-compelled to live with her mother-in-law-hemmed in like Caesar's army oy the enemy and the na-ture of the place."
"At any rate she has the sympathy of the community and the satisfaction of

I wonder why I like to pull our tabby cat's big tail Until I get a scratching, and howl and cry and wail. Ma says she is "extracted," or something sounds that way, Because I'm up to mischief the whole long blessed day. I wonder why I like to pull our tabby the tombustone. Was any odor ever so utterly unbearable as that combination of gasoline and subpur!" "I could stand John Reed, maybe," more warmly than Margaret's laughing comment would seem to warrant, "but his

AN UNSPEAKABLE AFFLICTION.

BY RUBY BAUCHMAN

from," complained Margaret rattling the cions she just insinuates things. It takes old paint brush vindictively against the me a week to figure out what she means. sides of an old tin can that smelled sick- to imply and by that time I've forgotten eningly of gasoline.

home with me from the Lakes. The cottage was—I saw some in the cottage, I'm the gasoline." sure. Of course they could easily get "Well—?" into my things."

sighed Margaret looking anxiously along a mattress seam.

"I don't know how many I brought but only ask somebody what to do! I've read the cook book and the files of the Medithe only peor's such I judge that a calamity ever befell. They're worse than a suicide in the family."

"Everything seems so useless. to day uttereth speech about some new scheme of assassing n; night unto night think about it," chuckled the mild one. showeth knowledge that murder has not "I'd never get on with her, never," in been committed," poking sadly into the answer to her own unspoken thought.

"Things are pretty well drenched now in these rooms. They smell like Standard the point. She has a soul as stiff and in these rooms for days."

Carefully planting an old iron kettle in for going to the city-" the middle of the floor she put into it first some crumpled bits of paper; over est sect of the Pharisees and I usually delicated-tinted "owers of sulphur. "They're off," she laughed, setting a

they die in peace."

each fraction then rises to a speedy resurrection "

In each of the upstairs sleeping rooms ed the pale blue smoke; even the keyhole puffed out jets of cerulean vapor. lungs and drove them down stairs.

"These last few weeks the house has felt like an inferno; now it smells the lined lane gazed the sitting avenue of elms to the distant squares of sonality and distinction. vari-tinted oats, corn, and meadow fields. year."

"In that case, why remain there?" inquired the stay-at-home sister mildly.

"Because my work is there. I like to doing nothing worth while staying here copper cable, 5 cents per toot. Best roints 5 reet long at \$1,00 each, complete. Send for samples. HOLLAND CITY ROD CO., Holland, Michigan.

tinge creep up to the temples of Margaret's gentle face. "But do you never-

"Oh, I know very well that you think I ought to marry John. But I don't like this idea of being staked fast. I'm willing to admit that the tethered cow has the richest grass-usually,-but I'd rather have thinner picking over a wider range. I wonder why I like to do the things Pop When I run across a situation that I ys are wrong; can't handle better alone than with a to be a-hunting for trouble right man, I'll be convinced and marry John. not say, And then I get a scolding—but there, I'm built that way. She improved her condition much. She was making good money teaching—ad-vancing in years though, I'll admit, and I wonder why the apples in Johnnie Cres- alone. But now sha's got a sick husband,

the community and the satisfaction of knowing that Mrs. will be engraved on

comment would seem to warrant, "but his.

"That might be an argument for alleviating John's suffering, if you can." "She's always suspecting somebody of

something. You can always judge a woman by the motives she imputes to others. "I just wonder where they ever came And when she can't confirm her suspiningly of gasoline. what she said. She was in the drug. "I'm almost sure that I brought them store when I got the sulphur and followed me into the grocery and heard me order

"Don't say 'Well,' just like that little "I guess one is enough for a start," mother-wren out in the lilac bush. She asked me what I was going to do with it." "And you told her?"

"I said we were going to clean some I'm sure we got the start. If one could gloves and bleach some hats-and we are," in reply to the reproach in Mar-garet's eyes. "I will not be quizzed by cal Companion clear through, and from her; she'll be over to see what we're the unsympathetic silence they maintain doing."

"Yes, but-"

"That sulphur is putting my eyes out; I hope it is slaughtering our foreign pop-"I'm glad Mother's gone. She'd very ulation upstairs. The more I think about much prefer suicide, I think." Aunt Martha nosing after me the mad-Aunt Martha nosing after me, the mad-Day un- der I get." "And the madder you get the more you

recesses of the creaking springs. "You're not fair to John's step-mother, "The gasoline cure is decisive if it once Beth. You're not likely to be with peo-touches them. But how can one be sure ple you don't understand," a stern rebuke "Things are for so gentle a judge for so gentle a judge. "But I do see through her; that's just

oil tanks. Now let's get the sulphur go- straight in its emotions as the row of ing next. It's a good thing we can sleep Lombardy poplars in front of her house. on the porch-roof. No human can sleep Her mind works in one dimension only." "Just because she dared to criticise you

"Aunt Martha belongs to the straightthese she poured a liberal measure of the find my place among the publicans and delicated-tinted "owers of sulphur. sinners, but that surely makes it no af-"They're off," she laughed, setting a fair of hers if I choose to try to jab out match to the death-dealing powder. "May a living with a pen. If I ever knew her to own once to any of the mishaps that "They seem to die only in pieces and beset ordinary mortals-if I heard her ach fraction then rises to a speedy res- say it once with her own lips-if I ever knew her to climb down from that dizzy pinacle of perfection, I'd admit I've been he girls set the destructive fumes. Out wrong. After the awful affliction I've of the cracks of doors and windows pour- brought on this house meekness would be a more fitting garment for me than faultfinding," Beth admitted, stepping out on A pungent odor bit into the eyes and the porch. "Come here, sister mine," she called softly."

Over the gate at the end of the elmpart," lamented Beth with a degree of personality and distinction, hitched to a satisfaction as she opened the windows of low phaeton. On the comfortable cushions "n and looked down the sat a gray-haired woman, also of per-

"Behold our Aunt Martha, as I predict-"How good it is to get back to the coun- ed. Though you cry to the mountains and try again. I dislike the city more every rocks to fall upon you, still will Aunt Martha search you out. I'll wager the avenging angel will engage her for deputy in the day of-"

"Sh, Beth, Beth. It's a good thing you feel that I'm doing something worth aren't so bad as you sound," but Beth while. I don't mean that I think you're was furtively watching, through her lashes, the tall man-figure striding up the with father and mother. But there will lane beside the carriage. "Sometimes I be time enough for me to come home to think your work has made you a bit com-

PUT AWAY PICKLES Mathematician Figures Out the Food Question.

If anyone requires a clear head it is a teacher of mathematics. He must reason in the abstract as it were, and He must full concentration of mind is necessary if correct results are to be forthcoming. An Ohio man writes:

"I am a teacher of mathematics and for 15 years prior to four years ago, I either took a lunch composed of cold sandwiches, pickles, etc., to school or hurried home and quickly ate a hot dinner.

"The result was that I went to my afternoon work, feeling heavy, dull of brain and generally out of sorts. Finally learned about Grape-Nuts food and began to use it for my noon-day lunch.

"From the first I experienced a great change for the better. The heavy, unpleasant feeling and sour stomach caused by the former diet disappeared. The drowsy languor and disinclination to work soon gave way to a brightness and vim in my afternoon work, a feeling entirely new to me.

"My brain responds promptly to the requirements put upon it, and what is of more importance, the results have been lasting and more satisfactory, the longer I have used Grape-Nuts as a food.

"My wife had been suffering from weak stomach accompanied by sick headaches nearly all her life. She is invariably reheved of these when she sticks to Grape-Nuts, either eaten dry or with milk. Her stomach has gradually grown stronger her headaches less frequent since and she began to eat Grape-Nuts." "There's a Reason." Name given by Postum Co., Battle Creek, Mich. Read the booklet, "The Road to Wellville," in pkgs.

Ever read the above letter? A new one appears from time to time. They are genuine, true, and full of human interest.



AST year 646,448 people J bought this famous shoe, because it is better than any other medium-priced shoe in existence.

It is the "Our Family" shoe, and it is made in several styles—all sizes for men, boys, women and children.

It is honestly made of good leather, with sole leather heels, counters and soles. No substitutes for leather are ever used.

The "Our Family" is a "Star Brand" shoe. This means that it is better than other shoes of the same kind at the same price. The "Star Brand" merchant has

an "Our Family" Shoe cut up so you can see how it is made. Ask to see it. ROBERTS, JOHNSON & RAND



shook their knees the two girls went down them on the train-at any rate-" but the steps past the glowing geranium border to greet their guests, Margaret cordial, Beth absent-minded.

As they reached the first veranda step the delicate nostrils of Aunt Martha's high-bridged nose quivered to the attack of the gasoline-weighted sulphur.

"You've been using the gasoline, I notice," to Beth who was nearest to her. "Oh, yes," watching John's broad shoulders with a pre-occupied, perfunctory smile.

wanting to try it but did not know how to go about it."

"Oh, you just daub it on thick into every nook and corner. We put it in an old can and used an old paint brush."

'Why, I should guess that it would require a clean bowl. Someone has told me to use soap with the gasoline." Beth's dreamy eyes looked far down

the vista of elms.

the bedrooms afterwards, lots of it." "Sulphur? What for?" and Be and Beth's dream faded before the shrill surprise in Aunt Martha's voice. "Why, to kill-"

Whatever woman fancies had been softening the edge of Beth's antagonism to the institution of matrimony were lost in the fright of her near disaster. "To clean and bleach the hats, to be

sure." "You're so self-absorbed; I suspect things as they were to be. ou're working out one of your stories "Beth, Beth," interrupted John's voice you're working out one of your stories

under our very eyes," accused Aunt Martha. "Not a love story, of course, with your prejudices. John, I want to talk to the girls about a matter—about a very delicate—very troublesome matter. Would you mind waiting for us on the north porch?" with a shade of anxiety to which Beth was not deaf.

Meekly, as befits a man in the minority, John started across the sitting room to comply with the request, then turned coughing.

"This house is full of smoke. Are you sure-I surely smell burning wool.'

Beth ran for the stair. Even as she reached the top step, a tiny flame licked out at her from the keyhole of the first door. A cloud of smoke enveloped her as she pushed it open.

voice that shook as she had never known her voice to shake, "get the hose below the bay window, quick, from the outside -on the roof of the window! You can't the farmstead. get in up here," and she ran wildly down past the frightened, fluttering woman and pushed John before her to the porch. Quickly he grabbed the serpentine coil that wriggled and writhed along the grass in his grasp.

"Turn on the water, Beth, when I get up there. Don't try to go up stairs. Stay where you are."

breath he had reached the roof, broken day and carted off to the butcher's, skin the pane, and sent the hissing stream in- and all. Lady Jane Jersey tore her to the blazing room. Ages long Beth lovely udder completely from her body waited, trembling, stripped of her fem- and met the same fate. I implore you to the pane, and sent the hissing stream ininine self-assurance, till this masculine desist." person should announce that the danger was over.

judgment of the sterner sex, as he clambered down. "I'll go up on the inside to be sure," and he took the stairs three at a jump. The women below heard doors opening and windows creaking.

"What in the name o' sense have you got up there? It smells like the day of judgment," as he wiped his eyes streaming with the sting of burning sulphur. "Is everything—did you see—" and Beth

quavered off into embarrassed silence. should have been obvious from the be- struggled to release himself the more did ginning, and a slow smile spread from his gentle, gray eyes to his smoke-stained the tender flesh beneath. face.

advisors on that point in household eco- spot. An old ox, taking in the situation, their methods are rather too disastrous his wide sharp horns he succeeded at and exciting to become popular. I must last, and, tossing him without ceremony go find Mike to help me get that mess into the coveted field, he exclaimed, cleaned out before your father comes "There, simpleton, go your own way. Reback," and he disappeared, laughing, to find the man-of-all-work.

With an impulsive, almost un-Aunt-Martha-like swoop, that lady pounced up- eos with your bawls. You have disgraced on the two girls. Beth felt the old bar- your mother and well-nigh ruined yourriers melt in some mysterious way before a great flame of common understanding. "So you have them, too? And you were using the gasoline to-"

"To assuage an unmentionable family sorrow," half-sobbed, half-laughed the penitent Beth.

"I can tell you more easily then, what I came over for. John brought some home with him from town-he may have got a million dollars in my left hand."

Aunt Martha's tongue refused to formulate the disgraceful fact. "I didn't know what to do for them-I never had any-I couldn't ask-and in my trouble I came to you girls. I wouldn't even want your mother to know. I thought you girls, especially Beth who has seen more of the world, would be more generous in your judgment. Even when you've held yourself fartherest from me," turning to Beth, "I've thought-" but Beth's arms, closely clasping her, tilted the gray bonnet to "Just how do you do it? I've been the last fraction of inconsequence over the soft, gray waves of hair.

"I'm sorry I've been so hateful, Aunt Martha. I'm sorry and ashamed. If I can make up in any way-"

"You can keep your agreement," interrupted Margaret's soft suggestion. "Why, what-?" mopping a tear-wash-

ed face with a blue gingham apron corner. "You said you'd give up your solitary

'Oh, we didn't; we burned sulphur in independence just as soon as you found yourself in a situation where you really needed a man to help you." "Of course," ruminated Beth, "if there

hadn't been a man about, I could have but Margaret broke in on this perilous

pondering. "But you didn't; you called John. Furthermore you said if you ever heard Aunt Martha admit that—" continued Margaret, as Aunt Martha's gray silk arms folded over the last throb of rebellion against

from the back porch. "I wish you'd come and tie up my hand. I cut it on the

window. "Tell him, honey, tell him right now,' "He's waited whispered Aunt Martha. long enough for two belligerent females to come to terms of peace, so we can both live with him in one house."

LITTLE FARM FABLES.

BY AUNT QUILLIA.

A Hapless Venture.

A witless calf, having become dissatisfied with the pasture in a fine meadow. conceived the idea of bettering his condition by scaling a fence into an adjoining field.

Friends, relatives, acquaintances, all "John! John! John!" she called in a joined in a protest to dissuade him from his foolish plan, warning him of the danger of the attempt and assuring him that the lot in question was the poorest on

> Especially did his mother labor with him, citing instances of disaster that had come under her own observation.

"Bossie," said she, "it is a wild, impractical scheme. Strong, half-grown cattle. Bull Hereford, Bull Holstein, Bull Guernsey, for exampe, have been caught on those deadly barbs. Young Galloway lacterated his hide, intended for a Before Beth could quiet her gasping beautiful robe, that he was shot the next

But of no avail. So wretched did he become over the opposition encountered "It's more smoke than fire," came the that he nearly wore his mother out with his unhappy bawls. Indeed they so got onto her nerves that, at last, they ar-rested all lactic secretion and, one evening at milking time, she was ignominously banished from the barnyard.

One night when the rest of the herd were dozing Bossie quietly stole over to the side of the pasture which bordered on the promised land. "Nothing venture, nothing win," said he, whereupon giving desperate leap he landed sqarely upon John finally discovered that which the summit of the fence. The more he the cruel barbs tear his hide and pierce

Setting up an unearthly bawl he soon "I don't believe the girls are reliable brought the most of the herd to the nsult them about; proceeded at once to extricate him. With "There, simpleton, go your own way. Regale yourself if you wish on sand and gravel-providing those goats have left You have made night and day hidany. self, all of which reminds me of what I heard a stock-buyer say the other day 'Wise men profit by the mistakes of others, but fools by their own.'"

> "I am to meet the Duke at the dock." "But he has never seen you, girl."

"For means of identification, he is to wear a red carnation and I am to carry



The No more carfiages were sold in 1911-12 than in the previous season. Yet the sales of Goodyear 'Wing'' Carriage Tires increased 30 per cent in that same period. That means our sales of the preceding two years were practically doubled. And for 1912-13 we have estimated a still further increase. Of the 200 carriage makers in the U. S., 148 now equip their carriages with Goodyear 'Wing'' Tires - almost 75 per cent. Goodyear 'Wing'' Tires have become the most popular carriage tires in existence. All because thousands of carriage owners have used and tested them for 14 years and learned their superiority. The Goodyear 'Wing'' Tire brings the same big saving to carriage owners that the Good-year No-Rim-Cut Tire brings to were so fa automobiles. Stop and consider these facts before you buy rubber tires for your carriage.



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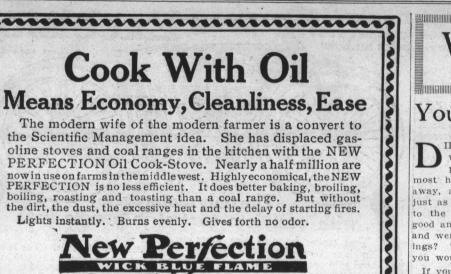
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Woman and Her Needs. At Home and Elsewhere. You Can't Move Away From Yourself.

with your surroundings and every most heartily you could get 3,000 miles away, and never come back? Ever feel just as if everyone you knew was untrue to the heart? That you were the only good and true person in the neighborhood and were being spoiled by your surroundings? That if you could just get away you would be all right?

If you have, if you feel that way now, just stop it. When you get to that condition it is a sign that you are in pretty bad shape yourself and need a thorough overhauling. Better stop and take ac-count of yourself and see honestly if you would be any better off in other surroundings than you are at present. Wouldn't you act under given circumstances, just the same in Portland, Me., as you would in Poreland, Ore.? And have you any reason to think that things would be different for you in the west from what they are in the east? Human nature is the same the world over. You wouldn't change if you changed your location, and as folks are folks whether east or west, if it is outside influences that are disturbing you, you would probably be disturbed just as much by others in one place as in another.

I remember the first time this was brought forcibly to my notice. I had been particularly annoyed by a neighbor's child who came to play with mine. Every morning before we left the table he was there and every forenoon there was a squabble for me to settle. I thought him particularly quarrelsome and firmly believed that if I could move out of the neighborhood my troubles would end. remarked one morning to an older neighbor that I would like to move a thousand miles from Johnnie Smith.

"Well, you'd find another Johnnie Smith placidly, "and he might be enough sight worse than this one. You'll find Johnnie Smiths any place you go, so why not stay right here and try to adapt yourself to this one you're acquainted with? Of course, I don't want to say anything about your boys, but I've noticed them quarreling between themselves once or twice when Johnnie wasn't around," and with this Parthian shot for Johnnie she took her departure.

Of course I sniffed at the time. We always do when someone tells us something we need to know. But the more I thought of it the more I saw she was right. There are extreme conditions when changing one's location will affect a great change in living generally. As when a boy has gotten into bad company, moving to an entirely different neighborhood and giving him good companions may work a change in him. But for ordinary everyday living, just getting in with new people will have no effect. If you are morbid, or quarrelsome, inclined to sulk in one neighborhood you will be in another. If you are not a success in business at home you are not likely to be . broad, unless you change your line of business and try something to which you are better fitted. In short, if anything is wrong with you the thing to do is to stay where you are and fight it out. Don't blame Jones or Smith or the town, blame yourself. And then work to remedy your defects. DEBORAH.

WASHING BLANKETS, QUILTS AND COMFORTERS.

ID you ever get so out of touch Rinse a second time, wringing the blanket as free from water as possible. Shake person near you that you wished well before hanging up to dry. Roll each corner a trifle and pin with a small safety pin to prevent the corners from whipping out. When dry they will be whipping out. When dry they will be fluffy and soft, ready to fold away for another winter. Another way is to stretch the blankets on curtain stretcher, putting them on double.

Comforters .- Never rinse comforters in cold water as it tends to harden the cotton batting. Comforters are washed in the same way as blankets, only the water should be fairly hot and they should soak a couple of hours in a good hot soapy water to loosen up the dirt. The ends or any parts may be rubbed on a washboard or washed in the washing machine. After the comforters are dry, roll and beat with a smooth round stick. This will loosen up the cotton and make the comforters more fluffy.

Quilts.-Wash same as the comforters, except that where the colors will not run they should be scalded to make them more clear and fresh.

THE EASTERN WAR AND OUR NEW CLOTHES.

The high waist lines and tight skirts which have been with us so long seem doomed. In fact, no waist line at all seems to be the rule in most of the new coats and suits, and blouses and lingeries gowns are rapidly following. Just why a war over in a cluster of European states which none of us could bound and most of us had forgotten existed, should change the style of American women's inches below the waist line, and pulled clothes, is one of the unsolved mysteries of Fashion. But changed it is, and now all you can hear is "Balkan," "Bulgar-ian," or "Roumanian." Strange as it "Well, you'd find another Johnnie Smith ian," or "Roumanian." Strange as it there to help you settle," she remarked may seem, nothing is "Montenegrin," even since the capture of Scutari.

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The sum total of the three new styles seems to be vivid colors and dresses and suits that look like a meal bag with a string run around the bottom about six up just enough to make a few gathers. "Sloppy," is the way one bold young man expressed his opinion of his sister's new white dress. And though the young woman was highly indignant, most of us agree with him. After the trim, scant, tight-fitting attire of the past two or three seasons, the new things look "queer," to say the least. However, they are here, together with draped skirts, and are likely to stay. So we might as well accept them and pretend we like them, as we did the hobble when it appeared.

There will be many a sigh, though, over the increased amount of material required for the new clothes. For, where a suit with a hobble skirt could be gotten out of a yard or so of cloth, the new ones will require more.

SHORT CUTS TO HOUSEKEEPING.

Substitute one teaspoonful of baking powder for one egg in griddle cakes. Soda must also be used for the buttermilk as usual.—Harriet.

To Clean Feathers and White Plumes. -Make a suds of half a bar of naptha soap or some other hard white variety, shaved into a pint of soft, clean rain water. When it is like a jelly, dilute it with warm rain water. Soak the plume or feathers in this for ten or fifteen min-

BONDS SECURING POSTAL SAVINGS FUNDS B BONDS YIELDING 4%-5% PAYABLE SEMI-YEARLY BACKED BY CERTIFICATES FROM UNITED STATES TREASURY 0 0 CERTIFYING THEY PROTECT POSTAL SAVINGS BANK FUNDS AVAIL YOURSELF OF THIS PROTECTION SEND FOR OUR BOOKLET BONDS OF OUR COUNTRY BONDS SENT TO ANY BANK OR EXPRESS D D S COMPANY SUBJECT TO EXAMINATION THE NEW FIRST NATIONAL BANK COLUMBUS. OHIO. When Writing to Advertisers please mention the Michigan Farmer.

utes, occasionally drawing it rather loose-To wash blankets, quilts and comfort- ly through the hands to strip out the soft water if it can be obtained.

ers choose a warm sunny day so that dirt with the suds. Rinse in water of the they will dry as quickly as possible. Use same temperature. If there is any soiled streaks left, lay it on a smooth surface Blankets .- Woolen blankets should be and with a soft toothbrush rub gently washed in luke warm water, never in hot with soap and water, working outwardly or cold water, as it shrinks them. Use from the stem. Rinse in clear, warm a good white soap or some reliable woolen water, and afterwards, if a white plume soap. Put the blankets to soak for 15 or feather, in bluing water. Draw through minutes in warm water, soaping the the palm of the hand to squeeze out the blanket as it is put in the tub, putting water, but without twisting. Pin or Pin or on a little etxra soap where the blanket stitch the stem to a cloth and hang up is most soiled. After allowing to soak, to dry with the thick end of the stem work the blanket around in the tub, rub- up and the plumage hanging down. If bing between the hands and applying there is time enough, shake it near the more soap where needed. Souse the stove until dry. It can be dried out blanket several times and wring into an- doors in a gentle breeze, but care must other warm water, going over blanket to be taken not to allow the wind to break see if any soiled places have been missed. it or tear the plumage.-Z. I. D.

JUNE 14, 1913

THE MICHIGAN FARMER

Farmers' Clubs

OFFICERS OF THE STATE ASSOCIA-TION OF FARMERS' CLUBS.

President—Jas. N. McBride, Burton. Vice-President—C. B. Scully, Almont. Secretary-Treasurer—Mrs. C. P. John-

Son, Metamora. Corresponding Secretary—Mrs. Wm. T. McConnell, Owosso. Directors—C. P. Johnson, Metamora; a H. W. Chamberlain, White Lake; Wm. T. Hill, Carson City; Jerry Spaulding, Belding; R. J. Robb, Mason; J. F. Rei- W

Belding; R. J. Robb, Mason; J. F. Rei-man, Flint. Address all communications relative to the organization of new Clubs to Mrs. C. P. Johnson, Metamora, Mich.

Associational Motto:

. The skillful hand, with cultured mind, is the farmer's most valuable asset.

Associational Sentiment:

The farmer, he garners from the soll the primal wealth of nations.

THE JUNIOR CLUB.

The Junior Farmers' Club, so-called, has proven to be a method by which the young people could be interested in Club work in many communities in Michigan. Such an organization has, at the same time, proven of great benefit in interest-ing the boys and girls of the Club com-munity in the possibilities of the farm, where this work has been directed along right lines. This is the age of boys' and girls' Clubs. In the south these organizations have

where this work has been directed along right lines. This is the age of boys' and girls' Clubs. In the south these organizations have been even more popular than in the north but they are becoming popular every-where, many of them having been organ-ized in Michigan during the past year. Generally these Clubs engage in some competitive contest, such as the growing of corn or potatoes by the boys, the can-ning of fruit or vegetables or in the prac-tice of culinary art by the girls. The re-sult is educational as well as inspiring to those who participate in the contest. A least one Courty Association of Farmers' Clubs has promoted corn con-tests among the boys of the county this year. This is a commendable work, which might well be undertaken under the aus-pices of the organization itself, just as a Junior Farmers' Club might be organized and given similar interesting work by each local Club in the state. It is perhaps too late to go into a scheme of that kind this season, but there are other interesting lines of work for the junfor organization. For instance it might be given charge of the work of promoting a Club fair, where such a spe-cial feature has not been inaugurated by the local Club. This would prove bene-ficial to both young and old, and it would doubtless be a matter of surprise to the older members that the young folks could be interested in the work. There are un-doubtedly great possibilities in the junior organization, and every local Club would do well to develop them in an original way.

<text><text><text><text><text><text>

Grange.

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

THE JUNE PROGRAMS.

Suggestions for Second Meeting.

Song. Roll-call responded to by each giving

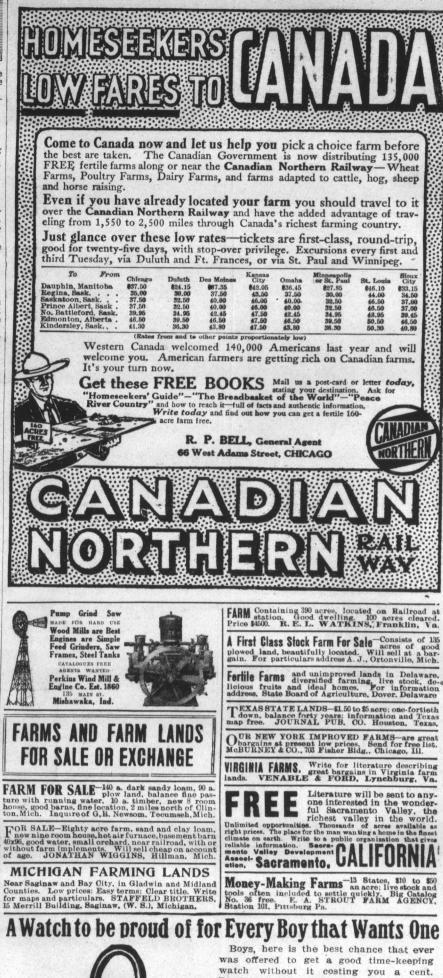
Roll-call responded to by each giving a favorite verse of poetry. Reading, "The best will ever written." Soil cultivation: 1. Why cultivate? 2. When cultivate? 3. How cultivate Song. Stunts in tongue twisters. Results of leaching agriculture in our schools this year, by an eighth grade pu-pil, a teacher, and school officer or parent.

, a teacher, the rent. Mock school meeting, conducted by the women.

TWO-DAY MEETING OF GRAND TRAVERSE POMONA.

TRAVERSE POMONA. Seven of Grand Traverse county's ten subordinate Granges were represented at the Pomona meeting held at Old Mission on Wednesday and Thursday of last week. The quarterly reports showed that there had been a gain of 19 in total membership since the first of March, the number now on the rolls being 803. The reports also showed that 43 meetings had been held during the preceding quarter, and that programs had been carried out at 35 of these meetings. The present value of the property of the Several subordinate Granges is \$14,825. East Bay Grange had the largest gain in membership. It was reported at this meeting that Long Lake subordinate is about to erect a hall upon its lot near Long Lake town hall. The building will be 30x50 feet in size, with a basement and ground floor. The new hall will be the seventh Grange hall in the county, the Granges already having halls being Grand Traverse, Elk Lake, Peninsula, East Bay, Fife Lake and Summit. A big mid-summer rally was decided

Summit. A big mid-summer rally was decided upon, and a committee assigned the task of making the necessary arrangements and the Granges of the surrounding coun-ties are to be asked to help plan a cele-bration that will remind the people of the region that the Grange is one of the prin-cipal factors in the wonderful develop-ment going on in the Grand Traverse region.



watch without it costing you a cent. Read this over and then get busy, if you haven't got the watch as good as in your pocket in a couple of hours, it's because you don't want it bad enough. The watch is the real thing, 16-size,

nickle case, stem-wind and set, second hand, fine watch movement, and keeps absolutely correct time. It's fully guar-anteed and if you don't hammer tacks with it or take it apart, in fact, if you will treat it as the friend it will prove

Copposed to Free Wool.—The May meeting of the Wixom Farmers' Club was entertained by Mr. and Mrs. Eugene Freeman at their pleasant farm home and proved to be a very successful meeting.
 After dinner the Club was called to order by President B. T. Nicholson. America was sung by the Club. The question box contained 15 questions and were all thoroughly discussed. They were varied, some regarding "free wool" provoked a warm discussion, nearly all agreeing that they did not have any use for it.—Mrs. R. D. Stephens, Cor. Sec.
 Pomona Meetings.
 Pomona Meetings.
 Wayne Co., with West Road and Willow Granges, in Willow Grange hall, Friday. June 19.
 Montcalm Co., with Barnard Grange, at Barnard Grange hall, Thursday. June 19.
 Shiawassee Co., with Center Grange at the question regarding "free wool" provoked a warm discussion, nearly all agreeing that they Stephens, Cor. Sec.



to you, the manufacturer will keep it in repair for one year without charge. That's fair, isn't it?

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Hooked-base tires-tires which rim-cut-now cost the

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Tires just rated size now cost as much as these oversize tires.

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self. Test the tires which, on countless cars, have shown the lowest cost per mile.

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