

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

VOL. CXL. No. 22. Whole Number 3645.

DETROIT, MICH., SATURDAY, MAY 31, 1913.

The Farm Labor Home.

bor on the farm has been a stumb-It has been suggested that the farmers something beyond the realm of the mighty the loss and inconvenience that this con- the greatest efficiency in hired help. The might import foreign labor and allow the dollar. The farm wages are not high but dition occasions I am inclined to think man now in our employ has been with us young Americans to go to the city if the many sources of supplies have brought that the dearth of farm help may be a two years and he is more valuable than they have such desires. But no rural the income above the average wages of real boon to the cause of agriculture. It he was the first year. This is not always the ignorant classes of Europe among our been pleasant and helathful. farmers and that is not the way to keep the boy on the farm or to bring pleasant planation of how to build tenant houses, and no amount of drastic legislation can neighbors to the wives and children.

Every young American farmer desires a home and, by working in the factory, he can rent a place that is his own private abode and free from intrusion. The farmer cannot always give his hired man the advantage of a home. He is sometimes expected to occupy one of the poorest rooms in the house and his presence is a source of annoyance to the family circle. That explains why many men leave the farm.

The accompanying photographs were taken on the farm of a man who has solved his labor problem in an inexpensive and satisfactory manner. The problem of keeping the man contented and happy was simplified when that man had a home where he could raise his family and entertain his friends. Many young men have left the farm because they had no hope of starting a home until they had earned sufficient money to buy their own farm. They gave up farming rather than exist under the roof of their employer, while with the advantages of home life they would have been as contented to work in the country as in the city. If some owner of broad acres had spent a few hundred dollars in building a small house, he might have hired one of these men as the city manufacturer hired him. labor was the biggest handicap to suc- haps it may stimulate inventive genius The investment would have paid good divnot have longed for the city with its high any farmer owning a hundred acres of ticular has made many a man resourcerents the farm because it would be his home

The small square house shown in the photograph contains four rooms and has proven a comfortable home for a man and his wife. It is plain and with no architectural beauty, but it has been the means of keeping a first-class man on the place for five years. He is a better man than would ever have lived within another man's family circle where he could not have been independent. He would have gone to the city but even though the wages were higher, he could not have saved as much money as on the farm. House rent, butter, and eggs were but small expense as the house is furnished to the man at a fair rent and he is allowed to keep his own chickens and The potatoes, corn, and general cow. from his own garden are insurance against a big grocery bill and thus the worker on the farm receives at little cost many of the necessities that reduce the savings of the city man. The horses are often available on Sunday afternoons and the neighboring lakes are pleasant spots the pay check goes into the bank. worked up in a trade, but he has learned of the trade of a farmer and will always be employ. a good citizen in the community.

The second and larger of the tenant houses described, houses a man and his wife and their three children. Two of them are boys and the larger is already

farming trade and earning school money, plain that they are losing money every able for the place. And I think this would The advantages of a home have made year on account of a shortage of help be the experience with a good many oththat man a good citizen and the advan- that we cannot wonder oftentimes that ers (now having difficulties) if they could HE question of keeping efficient la- tages of an education will make his son they are disgusted with the business and manage to hire their help the year round, better one. a ling block to the average farmer. efficient, and reliable men and work for to town. can be made happier by scattering the city laborer and the environment has may seem paradoxical but I think it will the case, but he is more likely to prove

or the expense of the construction, as keep prices down so long as productive

there are many conditions existing upon labor continues so scarce. At any rate, ANOTHER HIRED MAN'S VIEWPOINT.

They are proving earnest, are ready to rent their farms and move or nearly. It is the long time service on And yet, notwithstanding all one farm that is necessary to bring out een pleasant and helathful. work out that way. Farm products will his real worth than the man who only This article does not attempt any ex- tend to keep on a higher level of prices stays a few months in a place. Ohio. H. E. WHITE.

50 CENTS A YEAR.

A Plain and Cheap Tenant House, yet an Appreciated Farm Labor Home.

cess. and confining work. The man land can build a small tenant house on ful.

scribed, the problem of keeping efficient may be for the best. Who knows? Per-



A Desirable Type of Tenant House will Solve the Farm Labor Problem. for holiday recreation. The clothes bill and to the hired man who has the desire the job has a good deal to do in attracton the farm is small compared with the for his own home. It seems a far more ing the better class of help. On our farm pumping for me and it was Saturday afcity and each month a fair per cent of same solution to the farm labor problem of nearly 300 acres we used to depend on If the than the importing of foreign labor and, help by the day and I spent much time man had gone to the city he would have to many farmers, it will be the only way keeping an efficient man in their Van Buren Co. R. G. KIRBY.

THE HIRED HELP PROBLEM.

Again the question of hired help keeps a willing worker who can spend his vaca- bobbing up as the ever dominant issue job on the farm and therefore we had the

chasing around town looking for help in haying and various other jobs; but for and the result is that I have scarcely pump another stroke. The result was, were three applications this spring for a apples off those trees. tions to the finest advantage learning the connected with farming. So many com- opportunity to choose the man most suit- lem. I would like to give a few thoughts

I would like to make a few remarks in regard to the articles written by Mr. Hutchins and also by the party signing himself, "A Hired Man," and Mr. Root. Like "A Hired Man," I was not needed at home, so commenced working out and have continued to work out for the past eleven years, and wish to say right here I do not side entirely either with the employer or the employe.

I have been employed by four parties during that time and in three different counties, and have worked alongside of a great many hired men and will go a step farther than Mr. Hutchins and say that the majority of hired men are careless and heedless, decidedly so, and, on the other hand, I think the majority of employers are careless, and I think Mr. Hutchins will agree with me in that.

"A hired man" says farmers do not pay high enough wages, but my observation has been that they do and that in many cases greater than the value received, but the individual farm that must be taken it seems unwise to raise such a clamor on the other hand, I think many farmers into consideration. Upon the farm de- about young men leaving the farm for it let good men slip through their fingers because they will not pay more than the "going wage" when those men's services The method of housing the men so that the few who remain in the coun- are worth considerable more than the idends and with the privacy and content- has proven satisfactory and the cost of try will become expert managers, for to average. He also says they ought to be ment of home life the hired man would the houses has been well repaid. Almost be handicapped in any important par- furnished winter employment. I believe a good man will always find winter employment. I cannot agree with him when would then take much more interest in that land. It will mean the greatest of Those who hire help continuously have he says they cannot save up anything, happiness, both to his own family who varied and interesting experiences, but for I know they can from experience. I and he would not classify as a transient may regard the hired man as an intruder nearly all agree that the permanency of have always dressed well, and have sent considerable money home, and have completed the two-year short course in general agriculture and the two weeks short course in horticulture at M. A. C., and by the way, what more profitable way could a hired man spend two or three of his winters than by attending the short courses for his own future benefit as well as the benefit of his employer at present. Besides this, I could pay cash today for a brand new 1913 touring car. I am not writing this to brag, but to show that a man can save if he wishes to. I might add that I commenced working for \$12 per month in summer and doing chores for board and going to school in winter, and have never received over \$30 per month in summer and \$20 in winter.

egular hours, I think many farmers could shorten their hours to good advantage if they would do more head work, but if there is anything I detest it is a man who will drop everything when the whistle blows no matter what the result is to his employer. I remember once I was spraying an orchard and there was a young fellow doing the driving and ternoon, when the supper bell rang we had about six or eight trees left and just enough material in the tank to finish and it would not have taken over 20 minutes the past few years we have been hiring to have finished the job, but the fellow by the month and nearly the year round dropped the pump handle and would not spent an hour since, in looking for help, Monday it rained and Tuesday it was nor do we pay extraordinary wages. There too late and we harvested a crop of poor



that have come to my mind during the oculated fields for inoculating new ones. People who live on sandy soil or on past year.

The majority of farms are supplied with Everyone knows that a boy well- culture. stay. trained at home who is interested in his work is the best hired man a farmer necessarily restricted to alfalfa, but cow- ly. There are no clods to be crushed by could have.

conducted and encouraged, will do more ested and finally solving the "farm help ulating the field. problem," than any other one thing. Oceana Co. ANOTHER HIRED MAN.

INOCULATING ALFALFA.

The growing of alfalfa is becoming more common year after year and the value as a forage crop is becoming more marked, especially in some of the northern states Some farmers are very successful, while others have complete failure. This failure is due, perhaps, to two things; namely, improper preparation of the seed bed, and to lack of inoculation of the seed or soil, the latter being the greatest factor.

Inoculation of an alfalfa field a few years ago was thought to be of very little value, but today farmers are beginning to see that inoculation is absolutely necessary for the best production of alfalfa. The field may become inoculated after alfalfa grows in a rich field eight or ten years, this method, however, is too slow and besides, the plant, instead of depositing nitrogen in the soil, is taking it from the soil. It has no power of forming nodules on the roots unless these particular bacteria are present. This is not only true with the alfalfa plant but it is also true with the clovers, cowpeas, soy beans and all of the legumes. They all require a certain bacteria for their best development.

We may wonder why the legumes do not grow well in an acid soil, since other crops, such as corn, oats and rye thrive very well in this kind of a soil. They do not grow well because the bacteria are not able to live in an acid soil. This difficulty can easily be overcome by applying about one ton of ground limestone per acre to the field. The lime is a base and neutralizes or corrects the acidity.

The most common method for inocu-The most common method for incel-lating for alfalfa is by scattering dirt heavy road grader can do with three men plow nearly as lumpy as it does some years, and I believe that it is the best from an old alfalfa field or from where and six horses. there is a good growth of sweet clover. Two or three hundred pounds of such dirt harrowed in on a cloudy day before the bright sun can destroy the bacteria is easily and economically applied. Last year we inoculated a five-acre field by this method. The soil was sown broadcast on a cloudy day at the rate of 200 pounds per acre. Three weeks ago while going over this field I noticed narrow going over this field I noticed narrow The theory has always been a plausible is plowed the fine dirt fills up the bottom strips of dark green alfalfa across the one to me. When the furrows are turn- of the furrow. We have just finished field, and they seemed to be where we ed over in sod, for instance, there is an disking 40 acres of clover sod and I held, and they seemed to be where we wanted we air space at the bottom of the furrow never had clover sod plow quite so well hand. Last week I noticed that these where the furrow laps. If the season is as this. Of course, if the season should hand. Last week I noticed that these dark green strips were gradually becom- at all dry this air space prevents capil- be wet I don't think it would make so ing wider and in a short time the whole lary connection of the plowed slice with very much difference, but if the season field will be of the same color. You may the subsoil, consequently you get no sub- is dry I am sure that we have formed a think that this dark color is due to a soil moisture. The only way to do in better capillary connection between the thicker growth on account of sowing the this case is to thoroughly pack the soil furow and the sub-soil and we will get seed broadcast, but the seed was sown down. Of course, in fall plowing the land more sub-soil moisture, and I am posiwith a disc drill both ways, so the dark gets settled down. That is one reason tive that we have got a better seed bed. color is due to nothing else but the action of the bacteria. This particular case than it is in the spring. But if this sod plainly shows the excellent results obtained from inoculation,

more economical is the glue method. Dis- be no air space there because the fine grown within five miles of my farm, and and 17 lbs. of ammonia are the same solve about a pound of ordinary furniture dirt thrown by the jointer would fill this I have seeded this alongside of other amount expressed in different terms, and glue in a callon of water. Moistan the air space as it does in pice stubble glue in a gallon of water. Moisten the air space as it does in nice stubble seed. The question to solve is whether glue in a gallon of water. Moisten the an space as it used in the seed. The question to solve is whether and of potash are exactly the same thing, seed thoroughly with this solution, stir- ground, and you would get better capil- home-grown alfalfa seed is hardier and of potash are exactly the same thing, the cost for an oven distribution, lary connection and consequently you better than that grown in the northwest, but expressed in different equivalents. ring the seed for an even distribution, lary connection and consequently you better than that grown in the northwest. then sprinkle on the finely pulverized and would get more moisture from the sub- Most people are inclined to think that dried dirt containing the bacteria. Care soll by capillarity. And again, in plowing this will be better. I have a good chance should be used in drying the dirt before stubble ground the corn stubbles bother should be used in drying the dirt before stubile ground the corn stubiles bound to try it out because our other conditions after, there can be obtained per applying as there is danger of killing the some. If ground gets a little dry, es-bacteria. The dirt should be selected pecially on clay, the jointer throws the from a place where the bacteria are trash and clods of clay in the bottom of known to be strong and numerous and the furrow. Now it is almost impossible and a little thriftier, but only time will to be used, if it can be obtained, is car-bound of the sole of the s should be dried and sifted in a moder. ately shady place. This method is a new get the proper capillary connection so one and has proven to be very satisfac- that you can get moisture from the subtory. much less than the former method.

the United States Department of Agri- be almost proper for a seed bed and then that is suitable to your locality. Many culture or from some of the state experi- the ground is plowed, this air space is thousands of acres of Corn did not mament stations. The Michigan Experiment entirely avoided, because it fills with fine ture last season simply because many Station prepares all kinds of legume cul- dirt. Then, when the ground is fitted farmers planted seed that was grown too tures and all farmers living in this state after plowing you have a thoroughly pre- far south. Ask your dealer for our Northcan get them at a nominal cost. Other pared seed bed. I say I have been a ern Grown Fire Dried Seed Corn, and if farmers can secure the same from the convert to this idea for a number of he can not supply it, order direct from us United States Department of Agriculture. years but never have been able to do it. and we will guarantee safe delivery. It This method of inoculating is particularly In the first place, my ground is heavy costs only about 40c per acre more to recommended for sections where alfalfa land, much of it is clay. Horse pulver- plant your land with our high grade testis not grown and where the sweet clover izers won't dig it up. If you load them ed Seed Corn than if you plant your own. does not grow. We used this method for down so that they will cut up this hard Ask for free samples and prices. Alfred inoculating our first field of alfalfa and clay then the horses can't pull it. You J. Brown Seed Co., Grand Rapids, Mich. now we use the soil from the already in- haven't got the power to do the business. -Adv.

enough boys and girls to carry on the ture but the expense involved in transenough boys and girls to carry on the thre but into the capture into the the but that it is best to get the much of a problem. A good pair of horses will draw a plow all day. The soil

THE MICHIGAN FARMER

peas and soy beans, which need inocula- a roller. The roller being put onto this I believe that the boy corn contests tion in a great many sections, can be in- soil presses it down and the tillage prob-

conducted and encouraged, will do more in your andria total your interview without inoc- loams or hard lumpy clays the proposi-toward getting the boys and girls inter- you perhaps have sowed it without inoc- loams or hard lumpy clays the proposi-ested and finally solving the "farm help ulating the field. If such is the case, tion is an entirely different one. It is the best thing to do is to inoculate imme- hard work for a pair of horses to plow diately or prepare the ground the next heavy soil. It usually plows up lumpy. It year and inoculate before sowing and is tough. It takes lots of power to cut your alfalfa will grow more thrifty with this up and fine it, and when corn stuba healthier looking color. J. C. KLINE. Indiana.

Among the many interesting topics in and that is the modern big engine disk your paper of recent date I have been or cutaway. particularly interested in the subject of are now making disks that cut ten or drainage. methods that some others have perhaps 2,000 lbs., and are double action, one tried, and if so I would like the benefit disk following the other so that it leaves of their experience.

and I need 20. The largest drain on the implement can be loaded with stones or place carries the water from a half sec- sand bags so that it will go in. It will tion of land. I have 80 rods of tile be- do the business. Now the only problem, ginning with 10-inch, then eight-inch then, is to get the power to draw it, and tile. I have cut the surface down to take that power is solved in the modern traccare of the surplus or it would be of lit- tion engine. Horses can't do it. It is too

tile six miles and paid the price and put places going one way. But when we went them in a ditch knows the difficulties en- over it both ways this manure was all countered.

with a man and team, whether it is grad- it plowed like a garden. ing the road, making a smooth surface enough fine dirt on top so that it filled drain, or filling a tile drain, than the all of the air spaces. The ground didn't

Livingston Co. F. L. HACKER.

LILLIE FARMSTEAD NOTES.

Disking Land Before Plowing. For a number of years I have been a convert to the theory that it would pay the big engine disk will cut into the cloto disk land before it was plowed, not ver sod and tear it up in going over it only stubble land but sod ground, too. twice, and chop it all up so that when it why it is better to plow sod in the fall ground can be thoroughly cut up by disk- to say that I am making one more experiing so that when it is plowed down the ment, and that is, that I succeeded in Another method which is easier and sod would not hold together there would getting a bushel of alfalfa seed that was ack this soil that you oft ards so The labor and time involved is soil. On the other hand, if the soil could be thoroughly disked, pulverized fine on Prepared culture can be secured from top, fitted in such a way that it would

Soil for inoculating can be procured from sandy loam know but very little about the United States Department of Agricul- the difficulties of tillage.

On easily tilled soils there isn't very The methods of inoculating are not is loose and mellow and plows down niceand other contests of farm work properly oculated by these methods with success. lem is not a very difficult problem. On If your alfalfa looks yellow and sick the other hand, if you have heavy clay

ble gets hard in the spring it is almost impossible to get a common horse pulverizer or spring-tooth harrow or anything SOME PROBLEMS IN TILE DRAINING. of that sort to dig it up. But I have found something at last that will do this, Implement manufacturtrs I have some ideas of different more feet wide that weigh from 1,800 to the land level and not in ridges, and if I have nearly five miles of tile drains the ground is exceedingly hard such an

care of the surplus or it would be of lit-tle benefit. I bought a 14-inch cement tile machine and made a few rods and started the lower end but it takes more time than I ower end but it takes more time than I trans wer to use. I will take the ditch when dry and dig the right depth and level, with the bottom shaped for 14-inch tile. With installments of cement and gravel placed along the ditch I will make the tile where they are to be left. I will use the core of the tile machine, which re-duces its diameter one-half inch when pulling on the handle, as the form for the tile six miles and paid the price and put the six miles and paid the price torn to pieces and mixed with the sur-I have a grader that will do more good face soil, and when we came to plow it There was job I ever did upon this field.

Again, the clover sod cannot be disked with ordinary horse tools. It takes too long. You would have to go over it a good many times to work it up. One 'can't afford the time in the spring. But

Home-grown Alfalfa Seed.

to try it out because our other conditions tell. COLON C. LILLIE.

GOOD SEED CORN.

Make no mistake, plant only such Corn

Practical Science.

SOIL AND FERTILIZER QUESTIONS.

SOIL AND FERTILIZER QUESTIONS. The average farmer who begins to study the chemistry of the soil and how to maintain its fertility runs up against some problems which seem to him pretty hard to solve. We have learned that the three elements of the soil which are de-pleted by continued cropping, are nitro-gen, phosphorus and potash. We know that nitrogen can be supplied to the soil by growing clover, alfalfa and other le-gumes, but in this vicinity we have had trouble in getting good even stands of clover on land that will grow good cropy of corn, wheat and potatoes. We con-clude that the soil needs lime and per-haps potash also, and several farmers in this vicinity are going to sow ground limestone this spring. Now we are told that to supply the soil with phosphorus and potash we must sow some form of commercial fertilizer which contains those elements, but in the highest grade of fer-tilizer of which we have the analysis there is only 16 per cent phosphoric acid and two per cent potash so that in a ton we would get only 360 bs. of those ele-ments which the soil needs and would have to pay for and handle 1,640 lbs. of material which is of no benefit to the soil, which seems to me to be a waste of money and labor. Also the analysis of one brand of fertilizer gives one per cent of nitrogen equal to 1.25 per cent am-monia and one per cent of sulphate of pot-ash, all of which leads me to ask the following questions, which I hope you will answer in the Michigan Farmer: Mame element or does nitrogen in the soil, change to ammonia?

A .- Nitrogen is an element; ammonia is compound of nitrogen and hydrogen. When ammonia is spoken of in a fertilizer the same constituent is meant as The ratio when nitrogen is mentioned. between nitrogen and ammonia is as 14:17. That is, if in a fertilizer the percentage of nitrogen is given, then by multiplying the percentage by 17 and dividing that result by 14, the corresponding element in terms of ammonia will be found.

B.-Potash is quite commonly spoken of in discussing the element potassium in fertilizers, almost in the same way that ammonia is spoken of when discussing the element, nitrogen. Potash really is a compound consisting of one part oxygen to two parts of potassium, written K2O. Now, sulphate of potassium is potash (K2O) plus sulphuric acid (SO3), or K2O plus SO3, which is K2SO4, which is sulphate of potash. If the percentage of potash is given and one desires to know what its equivalent is as sulphate of potash, he may multiply the percentage of potash by 174 and divide the result by 94. The result will be the equivalent in terms of sulphate of potash. One should bear in mind that if a fertilizer guaranty states that it contains 14 lbs. of nitrogen, 17 lbs. In my alfalfa notes last week I forgot of ammonia, 94 lbs. of potash and 174 lbs. of sulphate of potash, the fertilizing value is not equivalent to the sum of all these amounts, for 14 lbs, of nitrogen 94 lbs. of potash and 174 lbs. of sulphate

> Ċ. -A fertile soil will contain, perhaps, on the average, four tons of potash per acre, three tons of phosphoric acid per

D .- We think the best form of potash bonate of notash, the fo m n ash exists in wood ashes. The amount to be sown depends entirtly upon the soil and crop under cultivation. If wood ashes are obtained it may not be necessary to use limestone in connection therewith. If not we should use from 300 to 500 lbs. per acre in connection with the limestone.

E.-The same answer may apply to this question regarding available phosphoric acid as given under "D."

D.-If ground green or steamed bone is applied there need be no apprehension regarding the excess but if acid phosphate is used we should prefer to use it in connection with some organic manure.

F .--- If fertilizers are used in connection with an organic manure there is little danger in using too much.

THE MICHIGAN FARMER

Horticulture.

BORDEAUX INJURY OF FRUIT.

cide for all fruit troubles of a fungus with work and can hardly find time to nature. knocked it from its pedestal of promi-evil—a nuisance that must have some degree of attention, sooner or later, and an efficient summer fungicide.

an efficient summer fungicide. The Bordeaux injury which is familiar to many fruit growers is mainly found on the fruit, although sometimes the foliage is slightly injured. The russeting caused by Bordeaux injury often deforms the fruit as in a bad case of russeting where the fruit is lop-sided, the side of the ap-ple russeted does not grow normally. The fruit often cracks, as in bad cases of scab, and in some varieties, the Ben Davis for instance, it will cause teat-like protuberances which are russeted. Green-ings and Baldwins have become so rus-seted that they resembled Russet apples more than they did themselves. Varieties so injured will not keep as long as ordi-narily because they do not have the natnarily because they do not have the nat-the observer is not long in reaching the ural oiliness of the skin which prevents conclusion that the successfully conductural oiliness of the skin which prevents the evaporation of moisture from the in-side and shrinking. They will be liable to shrivel like the Russet. The market value of such fruit is, of course, consid-ed farms and well-kept homes generally mean good gardens, while slovenly, ill-kept places and unprofitable farming op-erations are apt to mean the reverse. erably below par.

per sulphate or blue vitriol. prevalent when we have considerable wet course, you will be unable to get a sat-Then the lime of the Bordeaux isfactory answer. weather. mixture unites with the excessive moisture, or rather, is washed out of the the little things that count. Bordeaux on the tree and free copper adds to the farmer's independence and sulphate is left, and it is very caustic.

A few years ago we carried out an experiment to learn something of Bordeaux fore, the more nearly the farmer can injury which gave us interesting results. come to growing what he consumes, the We tried to find out which spraying caus-We tried to find out which spraying the more nearly has he solved the protection of the Bordeaux injury and we had the subsistence and success. The man who experimental plots so arranged that one is harvesting early potatoes of his own of the usual sprayings of Bordeaux was growing while his neighbor is paying 40 cents a peck for tubers at the village being so that no two plots had the same store, is the man who has grasped the application left out. We found that all full significance of the advantages the of the applications except the one in farm affords. Likewise, the farmer who August, would cause the injury, the spray- pays 12 or 15 cents a quart for berries ing before the blossoms being no ex- during the berry season when, with a ception.

they thought it was a better fungicide are not tillers of the soil. than the lime-sulphur, and they have in many cases had serious injury. The writ- get the sentiment in regard to this sub-er saw Ben Davis apples last year which ject, it is probable that the farmers' had very serious Bordeaux injury from wives, at least, would answer unanimousjust the one spraying of Bordeaux before ly in favor of the good garden proposithe blossoms opened.

sprayed just alike before the blossoms from day to day, and they know better opened. day and on the same variety of fruit and really means. They can answer from the the making of the Bordeaux was as near standpoint of the same as we could make it in both broader standpoint of wholesome, comcases. On one plot we had injury and fortable living. To buy the vegetables on the other none. could account for the difference in the necessary expense. To go without them results was in the making of the two means poor management and unnecessary batches. slight difference in the way the two well as from that of economy and combatches were put together which caused fort, every farm should have a good garthe one to burn and the other not. So den—a garden in which rhubarb and as-we may have two causes for Bordeaux paragus and the earliest products can be injury, weather conditions and the manner of mixing.

ing, Jonathan, Wagener, Baldwin, King, owns one acre or an entire section, gar-Yellow Transparent and Winter Banana, dening is certainly worth while. are quite susceptible to injury. The Northern Spy, Duchess, Red Canada, Spitzenburg, Fall Pippin, and Snow are not very susceptible.

Van Buren Co. FRANK A. WILKEN.

IS A GARDEN WORTH WHILE?

At first thought, the question, is a garden worth while? may seem somewhat soil and thinned so that none were small soon as possible more straw will be appuerile. But anyone who will take the and spindling. No weeds were allowed plied, that evaporation may be reduced trouble to make a journey through the to grow among the plants. After the country in the last days of June or first plants were four or five inches high, the forest leaves, required but little assistdays of July, will soon discover that tips of the leaves were shorn off, so as there are reasons enough for asking the to cause the plants to grow stalky. Dur- and even under the coarse, unthreshed question. Perhaps it will be well to state ing dry weather the celery plants were rye straw, the new growth was normal in in the beginning, that the term garden thoroughly sprinkled, every evening. The as used here, does not mean a patch of tips of the leaves were again shorn, about was penetrating the mulch; still there pig weeds and quack grass with a fence two weeks after the first clipping. In were places where it seemed necessary around it, neither does it mean a strip doing this, there is danger of injuring the to part the covering, in order that the of ground adjacent to the hog pasture, plants. Only the top section of the larger new leaves and fruit buds might grow up with little or no fence between.

In considering the question as to

whether or not a garden pays, the first Until just a few years ago Bordeaux point brought up in serious objection is It was Bordeaux injury which gard the could are can hardly find time to reknocked it from its pedestal of promiit is generally later. In justice to a host

Ask the first-class farmers whether a The cause of Bordeaux injury is sup-posed to be due to the action of the cop-ceive an emphatic answer in the affirmaceive an emphatic answer in the affirma-It is more tive. Ask the second-class, and, of

> In farming, as in everything else, it is Whatever comfort is certainly worth ... ile. In these days of high prices, more than ever be-

little time and labor, he might have them A great many growers, thinking that the spraying before the blossoms would attained to the full significance of the cause no injury, used Bordeaux because

In canvassing a farming community to They- are the ones who have to tion. Two of our experimental plots were solve the problem of preparing the meals They were sprayed on the same than anyone else, what a good garden economy and from the The only way we and small fruit means an enormous un-There was undoubtedly some denial. From the viewpoint of health as secured, and in which throughout the summer, the various garden products can There is considerable difference as to the susceptibility of varieties to the Bor-deaux injury. Ben Davis, R. I. Green-lwing, and then some, and whether he Hillsdale Co. J. A. KAISER.

LATE CELERY FOR WINTER USE

Last year we had the finest lot of celery ever seen in this locality, and here is how it was grown:

leaves should be removed.

All this may seem to be a great deal of unnecessary work; but it is simply time wasted to set out small spindling celery plants. Good celery cannot be grown without considerable work. Late celery plants should never be

started in the house. That is, late varieties should always be sown in open ground. April or May is early enough here in Ohio. When celery is wanted for late fall and winter use, the plants may be set out any time from July to September, with good results. Ours were transplanted last year on August 21. After the ground had been thoroughly spaded, the plants were set in double rows about one foot apart and six or eight inches in the row. The advantage in the double rows is that when drawing the earth up around the plants to blanch, two rows are as easy to handle as one. Plants were set in rows on a level sur-Trenches have always proven unface. satisfactory here. To be at its best, celery should be grown quickly. Stringy or hollow celery is very poor eating. And unless there is plenty of plant food and moisture in the soil, the celery will be full of strings. To promote rapid growth keep the roots cool and damp. Late planting is conducive to rapid growth because the late summer and fall months are cooler, as a rule, and there is usually more rain than there is earlier.

After the plants started they were not disturbed for about a week. Then the soil was loosened a little. In dry weather the plants require more care. Unless the soil is kept moist they will be very slow to start. It is best to postpone cultivation until after a good, soaking rain. Then use a hoe or similar implement to loosen up the soil.

After the surface was thoroughly cultivated it was covered about an inch deep with manure from the poultry house. Needless to say, the manure must not come in contact with the plants. That is, it should be carefully spread around the plants, not among the stalks. When properly used it is an excellent fertilizer for celery as well as for various other When carelessly used, it does crops. more harm than good.

After the hen manure was put on nothing more was done for about two weeks. In the meantime, there had been several soaking rains, which was exactly what we wanted. Without these rains the topdressing would not have benefited the plants. The soil was again loosened with Another good rain came and by a hoe. this time the plants were growing fine.

At this stage the blanching process began. We think it best to begin drawing up the soil as soon as the plants get well started. Some growers do not begin to blanch their celery until it is nearly full size and as a result there are more green stalks in the bunches than blanched ones. Plants grow very fast after the ridging or banking process is begun. The roots are kept much cooler than where boards or any light material is used. Every few days a little more earth is drawn up around the plants as they grow. After this the celery will need very little attention until ready for use, except banking up a little, as the plants grow. The work should be done when there is no surplus moisture. If either the plants or the soil is wet when banking, it will cause the celery to rot or rust. Some growers wrap paper loosely around the plants before beginning to draw up the earth, to keep the stalks clean. Ohio. ANNA W. GALLIGHER.

STRAWBERRIES PROMISE WELL.

May first I finished loosening the mulch over the strawberry plants, that the new growth might come out with the least possible obstruction, and still have a maximum amount of the surface protected with the straw mulch. To be sure, some growth had been made prior to this time, but a close watch was kept to make sure that no injury to the plants was taking place, while I was attending to some work that was more pressing. In loosening the mulch, any surface between the rows not protected with straw The plants were grown in very rich was raked loose with a garden rake. As to the minimum. The plants covered with ance in pushing up through the covering, color, so it is evident that plenty of light M. N. EDGERTON. less obstructed.

"LIKE MAGIC" New Food Makes Wonderful Changes.

When a man has suffered from dyspepsia so many years that he can't remember when he had a natural appetite. and then hits on a way out of trouble he may be excused for saying "it acts like magic."

When it is a simple, wholesome food instead of any one of a large number of so-called remedies in the form of drugs, he is more than ever likely to feel as though a sort of miracle has been performed

A Chicago man, in the delight of restored digestion, puts it in this way: "Like magic, fittingly describes the manner in which Grape-Nuts relieved me of poor digestion, coated tongue and loss of appetite, of many years standing.

"I tried about every medicine that was recommended to me, without relief. Then tried Grape-Nuts on the suggestion of a friend. By the time I had finished the fourth package, my stomach was all right, and for the past two months, I have been eating with relish, anything set before That is something I had been unme. able to do previously for years.

"I am stronger than ever and I consider the effects of Grape-Nuts on a weak stomach as something really wonderful. It builds up the entire body as well as the brain and nerves." Name given by the Postum Co., Battle Creek, Mich.

"There's a reason," and it is explained in the little book, "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.





Live Stock.

First of all, it should be thoroughly understood that nearly every new-born colt runs a risk of losing its life from two principal causes; namely, the bowels are invariably costive-the first milk taken from udder of mother acts as a laxative, consequently the foal that nurses receives the benefit of this laxative and unloads and eliminates the excrement which usually packs the posterior bowels quite full. It is very important that the orphan colt should be given a tablespoonful of castor oil alone; a glycerine supos- confined the remainder of the summer itory or a small piece of soap be placed and fall. All farmers should know that in rectum to lubricate the bowel, or an ounce or two of olive oil be injected gently into rectum in order that this wavy excrement might be gotten rid of, tain a strong vitality, a brood sow de-Immediately after birth the navel cord mands exercise-all she cares to takeshould be treated in the following man- and a variety of feed. Both of these she ner: Wash the cord with a solution made will get if she has access to good pasby dissolving one ounce of carbolic acid ture during the summer. in a quart of clean water; or use one part corrosive sublimate to 1,000 parts brood sows and pigs together, and as water, then tie cord with a silk or linen most farmers have but one pasture, some string that has been thoroughly soaked in means must be contrived for separating either of these solutions. The end of the two classes at feeding time. This cord should be saturated with Lugol's so- can be accomplished by nailing slats lution, which is composed of 25 parts of across the feed floor door at such disiodine, four parts iodide of potassium and tances apart as will admit the pigs and eight or ten hundred parts water. Or you may apply a dusting powder com- Farmers who do not have a feeding floor posed of equal parts powdered alum, ox- can accomplish the same end by ide of zinc, boracic acid with a little structing a board or rail pen in which to camphor added. I have also obtained very good results by applying one part iodine and 99 parts liquid collodion. There are many other home healing remedies that seem to give good results and if you have nothing else on hand, use the first other mistakes combined. Far too many mentioned lotion until the navel heals heritarian the stall where the colt is kept neighbor farmers report like results, that should be thoroughly disinfected and kept when the brood sows are permitted to clean and free from filthy bedding.

Now, regarding the food supply, which is cow's milk. Select milk from a healthy cow that has recently freshened, but be sure and add one-fourth its volume of boiled water. Also add a little sugar to each meal. Kindly understand that a very young colt should be fed every two hours until it is a few days old, then the time between feeding may be gradually lengthened. It must also be understood that feeding utensils should be kept scrupulously clean, giving them much the same attention as is given in child feeding, for if this is not done the colt is almost certain to suffer from bacterial infection of the bowels. It is also important that the milk should be given at blood temperature. After the colt is a few weeks old, add some of the pulp made by boiling beans or peas or oil meal and remove the skins by pressing the pulp through a sieve. At ten or twelve weeks of age the colt will then eat considerable grass, crushed oats and, when. changing from fresh cow's milk to separator milk, it is necessary to reduce the quantity of milk fed for fear of inducing too much bowel action. I have thought that as soon as a colt would eat enough of other food, besides milk, it was no bad plan to discontinue the milk. A tein. The oil meal furnishes the real procolt reared by hand can usually and safely be weaned at four or five months. It and it has a slightly laxative effect that is also important that the colt have the gives vigor to the system. The best companionship of other colts, or horses; method of feeding such a ration is to wet they do not seem to thrive and do as it and place it in troughs. Don't add well when alone. This, perhaps, is on enough water, however, to make the mess account of them not taking sufficient ex- sloppy, for the sows will drink the slop ercise and the bowels and kidneys not rapidly and do very little masticating. acting free enough. Besides, plenty of What water the sows require should be exercise induces appetite.

On my father's stock farm in Canada many years ago we attempted to raise orphan colts occasionally, but invariably lost them all; this, I now feel sure, was for lack of knowledge, not only in feeding, but the early treatment of the na-In some cases they died from joint of in the like period a year ago. Towa's animal health commission has barred importation and distribution in furthermore, I am sure that we were not ing and airing their feeding utensils; be-sides, we failed to dilute their mflk and dId not add sugar. However, during the past 25 years, I have raised orphan colts in the like period a year ago. Towa's animal health commission has barred importation and distribution in that state of several herds of cattle af-fected with tuberculosis, and the com-mission is exercising diligence in pre-venting the dumping of undesirable stock on Iowa from Illinois, New York and oth-er states. Several herds have been test-ed, and in some cases it was found that some of them appeared to thrive fully as well as colts raised by a poor milking animais. ill, doubtless caused from navel-infecwell as colts raised by a poor milking animals.

REARING ORPHAN COLT BY HAND. mother. During the time they were fed milk I found it necessary to give them an Please tell me how to raise a colt with-out the aid of its mother. Grand Traverse Co., R. A. W. an sure it is also important to furnish am sure it is also important to furnish the colt plenty of clean drinking water. I invariably added a small quantity of salt to their food daily, besides gave them some cooking soda in their skim-milk. DR. W. C. FAIR. Ohio.

SUMMER MANAGEMENT OF THE BROOD SOWS.

On some farms the brood sows are shut up to wean the pigs and are then kept good results from the sows in the future cannot be expected where this sort of management is given. In order to main-

As it is not desirable to feed both at the same time bar the older hogs. confeed the pigs while the older hogs are fed outside. Separate pastures are advisable, however, when they can be had.

Confinement and a corn ration alone spoil more brood sows and sires than all farmers feed all their hogs together. It run with the fattening hogs during the summer and fall right up to farrowing time, poor litters of pigs are farrowed. Many of the pigs are born dead and many others do not survive more than a few days. The same results will follow when the sows are separated from the other hogs if the sows are fed largely on corn. Give the brood sows the run of a pasture and they will pick up most of their living and keep healthy; shut them up in a lot or feed them with the fattening hogs and they will lose stamina and disappoint their owner at farrowing time.

For about a month previous to farrowing the demands of the brood sows are rather heavy, and some feed in addition to that picked up in the pasture should be given. An all corn ration should not be given, however. The demands of the sows are for material to make bone, muscle, etc., in the unborn pigs. This calls for a growing ration and not a fattening one, such as corn. Nothing is better for the sows than a ration composed of oats, wheat bran, and oil meal several times a week. All these are rich in bone-making material. Oats are particularly good for keeping up a high vitality and the sows always relish this grain. Bran has a good effect upon the digestive tract and it also contains a fair amount of protein portion of such a ration, however, supplied in a separate trough. Indiana.

W. F. PURDUE

During the first four months of the esent year 364,256 cattle of the stocker present and feeder class were shipped from Kan-sas City, Omaha, St. Joseph and Sloux City into feeding districts, an increase of 75,652 head over such shipments made in the like period a year ago.

MAY 31, 1913.

THE MICHIGAN FARMER

Dairy.

CONDUCTED BY COLON C. LILLIE.

HOW TO MILK A COW PROPERLY.

The old saying "That any fool can milk a cow but it takes a wise man to feed it," may have something in it, but there is much to be said about how a cow should be milked, I'm sure. Why is it some men can milk more cows than oth-ers in a certain time, when they appar-ently milk about as fast? What makes some cows strippers, if not from poor milkers? If you can put in an article on "How a cow should be properly milked," I am sure it would be instructive to many and greatly appreciated. and greatly appreciated. Charlevoix Co.

W. M. S. for everybody to acquire. There are more ple milk them who do not know how to their hands or the necessary qualities in their makeup to do it as it ought to be done. The cow should be milked as rapidly as possible. Experiments go to show that the man who can milk cows the quickest gets the most milk in a year. cow or he does not in any way develop the cow. In milking the cow one should never strip with the thumb and finger. This is absolutely wrong. The teat should be grasped with the whole hand. If the teat is rather short grasp it with the little finger and the next to the middle finge» and have the rest of the hand up on the udder. Don't grasp it with the thumb and finger and attempt to milk in that way. Milking consists of manipulating the udder at the same time the milk is drawn from it, and unless one learns to successfully manipulate the udder he not a first-class milker. The cows is with reasonable sized teats, that is, those large enough so that a man can get a full hand hold on the teats, are the ones to be desired. Then, of course, one should reach up on the quarter of the udder with the thumb and forefinger every time before he squeezes the teats to get the milk. The thumb and forefinger working up on the quarter of the udder tends to bring the milk down into the teats, and then it is squeezed out by the rest of the hand. Just opening and closing the hand on the teat is not milking. You have got to manipulate the udder with the thumb and forefinger so as to bring the milk down into the teat before you can get out any great amount of it, and it is this manipulation of the udder which tends to increase the secretion of milk in the udder. With proper manipulation at the grees F. time of milking the cow will secrete more milk. Very little stripping should be The milk should all be taken form done. the udder without stripping. It is a good plan after one is practically through milkto go around to each teat, using ing one hand to press the milk out and the other hand to manipulate the udder. For instance, grasping the teat in the right hand and with the left hand gently pressing on the quarter of the udder with a downward pressure, will bring the milk down into the teat and then it can be squeezed out with the right hand. Going material for this method of denaturing is around to each teat in this way twice will take every particle of milk out of the cow's udder and there is no necessity of powdered rennet costs \$7 a pound, the thumb and finger stripping. Milking It is recommended that those wh fairly rapid and milking thoroughly and leaving no milk in the udder encourages the cow to give larger quantities of milk, in other words, it develops her.

The fact that there are comparatively prepared. few good milkers makes the milking machine necessary. No one would think of

Many times where a cow is quantity. not yielding what she ought to the fault is a poor milker, and when a good milker takes hold of the cow he can increase the flow of milk quite perceptibly. This is one of the most annoying things in the dairy business, the fact that, while men are willing to milk, many of them are not good milkers. They don't seem to understand the art and they can't perform the work in such a way as to properly develop a cow or hold her to a normal flow of milk.

PRACTICAL METHOD OF PREVENT-ING THE UNNECESSARY WASTE OF CONDEMNED MILK.

It is the custom of officials in many cities to condemn milk because of the failure of the milk dealers to comply with certain temperature standards. Usually Milking is an art, and not only this, this milk is disposed of by emptying it but it is an art that it seems impossible into the gutter, though some attempts have been made to denature the milk by poor milkers than there are good ones, adding certain substances which would many times more. The reason why many render it unfit for use in this fluid state. cows do not give more milk is because It is unfortunate that this milk, which is they are improperly milked, because peo- valuable for feeding farm animals, should ple milk them who do not know how to be needlessly wasted. This loss can be milk, or haven't the proper strength in prevented if the milk is returned to the farms, where it can be utilized for feeding live stock. Condemned milk could also be used in the city for making casein and for other purposes.

The Department of Agriculture has re-The slow milker tends to dry up the order to devise some practical method of cently conducted some experiments in denaturing milk so that its sale as market milk may be prevented and yet leave it in a condition suitable for feeding farm animals. The work thus far has proved that the use of a rennet solution is effective for this purpose at the usual temperature at which milk is condemned.

> In these experiments a three per cent water solution made from powerdered rennet of a strength of one to 30,000 was used, and 40 cubic centimeters of this solution were added to five-gallon cans of milk at different temperatures. The tests were made in a room where the temperature was 80 degrees F., as that is about the temperature of the air in summer when most of the milk is condemned. In one, test the rennet solution was added to a five-gallon can of milk at a temperature of 50 degrees F. In one hour and 15 minutes the milk was slightly thickened, its temperature then being 57 de-Thirty minutes later the tempergrees. ature had reached 59 degrees and a soft curd formed. An equal amount of milk at an initial temperature of 65 degrees was treated at the same time. In one hour and 10 minutes the milk in this can was firmly coagulated, and it is probable that the rennet had produced the desired effect in much less time. At the end of this period the temperature had been raised only 1.2 degree, or to 66.2 de-

> In the light of these experiments it is believed that if a rennet solution of this strength is added to condemned market milk satisfactory results can be secured under ordinary conditions without the disadvantages of the other methods which have been tried.

If a three per cent solution is made from rennet, strength of oneto 30,000, about 21/2 ounces (80 cubic centimeters) of this solution will be required for a 10gallon can of milk at a temperature of 53 degrees or higher. The cost of the very small, being only about three and one-third cents for a 10-gallon can when

It is recommended that those who contemplate using this method should test their solutions in the laboratory before using them in practice, so as to know definitely the strength of each solution

DAIRY NOTES.



An up-to-date De Laval separator will, on an average, save its cost every year over any other separator.

In addition to the actual saving in more and better cream there is also the saving in time of separation and cleaning, in easier running, greater durability and fewer repairs.

Because of these savings more than 40,000 users of inferior and worn-out separators of various makes last year took advantage of the De Laval exchange allowance and traded in their machines on account of De Lavals.

USERS OF OLD DE LAVALS, on account of the many improvements in the modern De Laval over machines sold 10 to 25 years ago, including closer skimming, easier running, better oiling, etc., will also find it to their advantage to exchange their old De Laval for an up-to-date De Laval.

SEE THE NEAREST DE LAVAL AGENT. He will tell you how much he

can allow on your old machine, whether a De Laval or some other make, toward the purchase of a new De Laval. If you don't know a De Laval agent, write to the nearest De Laval office giving make, number and size of your present machine, and full information will be sent you.

THE DE LAVAL SEPARATOR CO. NEW YORK CHICAGO

SAN FRANCISCO SEATTLE



5-621

having a milking machine if he could get good milkers and rely upon them. There is no question in my mind but what a first-class milker is better than a milking machine. On the other hand, there are so few first-class milkers that I believe the milking machine is fully as good dirt like either soda or some of the washas the average milker. The cows are sen- ing powders.

sitive creatures. When a cow gets used to one person milking she gives her milk use. If it is suspected that it is charged down more readily. Continually changing with organic impurities, one test is pourmilkers is poor practice. The cow wants ing a few drops of permanganate of pot-the same person to milk her. If he is a ash into a glass of it. The color is at good milker she will hold out on the flow once changed to a rich red. If this is of her milk longer than where frequent permanent, you may feel that it is reachanges are made. Where the change is sonably free from organic impuritiesmade from a good milker to a poor milker though other tests are required before it it is very noticeable in the yield of milk. can be guaranteed as pure; but if it be-The cow will hold up her milk, and not comes discolored or brownish, the water only that but it will gradually decrease in is unsafe.

Specialists not only discard but condemn soap in cleansing milk utensils. Washing soda or common baking soda is very much better. Soap makes them sticky, and does not take hold of the

Water may be clear and still unfit for



r hour. Made 30 Days' Free Trial Earns its own cost and more by what It saves in cream. Postal brings Fre alog folder and "direct-from-factors Buy from the manufactor ALBAUGH-DOVER CO. (12) 2269 Marshall Bivd. CHICAGO A alamagoo KALAMAZOO TANK & SILO CO. Kalamazoo, Mich. Kansas C'y, Mo. Minneapolis, Minn. No. Fl. Worth, Tex.

THE MICHIGAN FARMER



White Wyandottes —Snow white. Winter laying strain. Eggs for hatching. Send for 1913 circular. David Bay, 202 Forest Ave., Ypsilanti, Mich. WHITE LEGHORNS "Wyckoff Strain", stock chiz & eggs, circular free. Maple City Poultry Plant, Box C, Charlotte. Mich. White Wyandottes — Noted for size, vigor and egg pro-duction. 1915 circular ready in February. A. FRANKLIN SMITH, Ann Arbor, Mich.

EGGS-Barred Rock. White Wyandotte, SilverSpangled Hamburgs, Light Brahma, \$1 setting \$1.50 two settings. Mrs. E. D. BISHOP, Lake Odessa. Mich.

Eggaday Barred Rocks, bred to lay. Eggs \$1.50 per 15. Eggaday Poultry Ranch, Marshall, Mich.

Eggs, Eggs-Barred Rock, first few mated with ckls. Block, \$2 per 15, A. A. PATTULLO, Deckerville, Mich.

FOR SALE--Eggs from prize winning R.C.R.I.Reds, \$1.00 per 15, Eggs from standard bred fawn & white Ind. Runner Ducks. Mhite eggs strain, \$1.00 per 13. Coy G.Brumm, Nashville, Mich.

BRED TO LAY-S. C. Buff Leghorn Eggs 10c, Ohix 20 J. H. STEPHENSON, Boyne Falls, Michigan

BARGAINS in Standard Bred R. I. Reds, Af. goese and I. R. Write for prices. 26 R. I. Red eggs postpaid \$1.50, by express 20 for \$1.25. Best pens 51 per 15 postpaid. FRENCH FRUIT & POULTRY FARM, Ludington, Michigan.

DOGS. HOUNDS FOR HUNTING Fox, Coon, Skunk FERRETS Send 2c stamp. W. E. LEOKY, Holmesville, Ohio FOX AND WOLF HOUNDS of the best English strains in Ameri-ca; 40 years experience in breeding these fine hounds for my own sport. I now offer them for sale. Send stamp for Catalogue. T. B. HUSSPETH, Sibley, Jackson Co., M

Poultry and Bees.

COMBATING GAPES IN CHICKS.

cured. Do not wait until chicks become earlier than will one in which the cockinfected before adopting preventive meas-If the chicks are reared on the summer. ures. same small plot of ground each season, then the ground must be treated to pre- always a number of old hens. It never vent infection. with air-slaked lime and then spade it should be sold each year to keep the flock under. Lime has a tendency to sweeten down to whatever size can be most profthe soil. Do this each season and the itably kept. Like the cockerels, old hens danger of gape infection will be small, can be sold to best advantage early, or Sowing grain in the yards is also an ef- before the young stock is thrown freely fective means of purifying the ground, upon the market. After the active lay-Rye, oats or other quick growing grain is ing season is over these old hens will excellent for this purpose. The sowing not be doing very much laying, and then should be done before the chicks are al- is the time to market them. I have allowed in the yard.

to remove the worms. tractors can be purchased that will re- and bring about, or nearly at least, twice move them, or one can easily be made as much as in the late fall. Then, too, from a piece of thin wire, forming it in it is very hard to get old hens into good the shape of a loop. A loop of twisted marketable shape in the fall when they Insert either one of these gently into the more than otherwise, some are lost, they gapes. Clean out and disinfect the drink- have if sold a few months earlier. ing vessels; also the brood coops. Never lution. nate of potash is excellent. O. E. HACHMAN. Indiana.

WHEN TO SELL SURPLUS STOCK.

Success or failure in any line of farming depends as much upon the marketing ship preferably on Wednesday or Thurs-of farm produce as upon the producing of day mornings. Have two tags on each the stuff. A good many farmers who coop, one on each end, bearing your name have been successful in getting out a and address and that of the commission bunch of early-hatched pullets, make the merchant. mistake of marketing them as broilers when they would be worth much more as layers next fall. As a rule, it does not pay to market these early-hatched, pullets, even at fancy broiler prices, because keepers who cannot keep close watch of it's these that must be depended upon to their bees during the swarming season, produce next winter's eggs.

who do not know that there is a good will not abscond to parts unknown, as the and two pounds apiece. I have in a good trouble of separating two or more swarms many instances realized more for "broil- that clustered together and the finding of er" cockerels, weighing a pound and ov- the queen for each one, and the difficulty er, when marketed in April, May and in hiving a swarm perched in some high June, than I would have received for the tree, are some of the reasons bee-keepers same birds had they been fed until Sep- clip queens. tember or October. I have raised many cockerels as brollers at the proper time fewest in numbers and the finding of the and realized enough from them to pay queen is an easy task. A few hints for for their feed and that of the pullets up the easy finding of the queen may be to laying age.

profitable to sell the cockerels, especially the frames; if any is needed have it float the early-hatched ones, just as soon as over the frames. Sit down with your they can be made to meet the require- back toward the hive, so that light strikes ments of the market at the time. Dur- into the hive. Take out one of the miding April and May I have realized as dle frames after first crowding over the much as \$8 per dozen for 114-lb. cock- others a little. Look at the exposed side erels, and in exceptional cases more. of comb in the hive first, later on both During June, and often until late in July, sides of comb in your hands. If queen is from \$5 to \$6 per dozen for broilers not found, lean comb on the outside of weighing around 11/2 lbs. each may be hive and take next frame out, always obtained. In one special market we are glancing on side of comb in the hive ealizing as much as 60 cents per lb. for 2-lb. broilers as late as August. You can cases the first time over the frames. If rest assured that the end of the season not, close the hive and try again when will see no male birds on our place, ex- the bees have quieted down. cept those intended for breeders. The To clip a queen's wing, which should plain truth is that they will bring more never be done until she has shown her-

chicks to two months old to sell for 60 her abdomen-raise her off the comb. cents or more, and but little or none at place her gently on the left hand and all in keeping them to four or five months press on her feet with the left thumb old and selling them for about 30 or 35 sufficiently to hold her. Now, with the cents. For these reasons it behooves all right hand, by use of a small delicate farmers and poultrymen to dispose of pair of scissors, cut off about one-half their cockerels promptly.

forded more room, grow better and lay vents the cutting off of a leg. earlier. It is safe to say that a flock of Shiawassee Co.

pullets from which the cockerels have been removed before they become trou-Gapes are more easily prevented than blesome, will come to maturity a month erels are allowed to run all fall and

Then, besides the cockerels, there is Cover the entire yard pays to overstock, so enough old stock ways found it advisable and profitable to Gapes are caused by small worms that begin disposing of them as early as lodge in the windpipe and cause suffoca- May, and all that we had to sell went tion. The object of treatment, then, is before the close of June. At this time Gapeworm ex- they are in the best marketable condition, horsehair will also answer the purpose, are moulting. During the moult they eat windpipe of the chick and pull it out get poorer, the market declines rapidly, with a twisting motion. Burn all worms and when you dispose of them they real-removed, also all chicks that have died of ize not nearly as much as they would

For most farmers it is usually advisuse coops for new broods in which chicks able to sell all kinds of poultry through infected with gapes have been raised some reliable commission merchant, rath-without first disinfecting them. White- er than to local buyers, because they wash them thoroughly, adding a little cannot sell it better than you can, and crude carbolic acid to the whitewash. you can rest assured, they are not in the Then spray inside and outside of coop business for glory. It is no trouble to with a good coal-tar preparation. Also get the name of a reliable commission spray all feed troughs with the same so- merchant in some large city, and a card Keep a good disinfectant in the will bring, by return mail, shipping tags drinking water. Copperas or permanga- and full directions for preparing for market and shipping. Most commission merchants always have some crates and coops on hand which they will gladly ship you

> When you come to cooping the fowls, make it a rule never to overcrowd, and

New York. F. W. KAZMEIER.

CLIPPING OF QUEENS.

It is desirable, especially with beeto clip the queen's wings. A hive with Then, again, there are some farmers such a queen may cast a swarm, but it market, at fancy prices, for early-hatch- queen will be unable to fly and the swarm ed cockerels weighing between a pound will return. The losing of swarms, the

No better time can be found to clip flock of early chicks, marketed the queens than in the spring. Bees are then helpful. Open the hive with little or no I have always found it advisable and smoke. Do not puff smoke down between first. Queens may in mo

at about 2 lbs. than in the fall when self to be a layer, take hold of her weighing twice as much. wings with the right thumb and index There is a handsome profit in rearing finger-never grasp her body, especially of one of the front or primary wings. Then again, the pullets are thus af- This method is easy and quick, and pre-

N. F. GUTE.

MAY 31, 1913.

THE MICHIGAN FARMER

Farm Commerce.

ECONOMIZING BY TAKING ADVAN. er of the navigation months of this year. TAGE OF LOCAL CONDITIONS.

The farmers of Pier Cove, Allegan county, Michigan, are making use of a mill loaded vehicles waiting their turns to un-dam that has survived the mill, which load. The line of teams reaches far out now is in ruins. A steel bridge is suspended across the dam and to the railing of this structure have been bolted a number of force pumps. The farmers drive their spray carts on the bridge and pier furnished a whole ship load. then proceed to fill the barrels from the abundant supply of water in the dam. The water is then hauled to a mixing not subjected to repeated doses of the shed where the spray mixture is added. that reflects credit upon the men of that proved formula. It is believed to be section. It is the use made of conditions there to facilitate the handling of fruit. fruit farming regions in the great Wol-There is nothing to attract attention save a long pier built far out into Lake Michigan, and a storage house at the land end of it. On top of the pier extends a T rail track on which are operated a pair of long wide-bed cars. The cars are load-



Steamer at Pier to be Loaded with Fruit.

boat, another is being loaded in the stor- the new apple crop. age house, in which the floor is level age house, in which the hoor is level there are defined purposed for more was issued have worked havec not only with the tops of the cars. The pier is this fund will be used. It will provide in Michigan but also in many other imtaken out late in the fall and replaced the means for carrying on a continuous, before shipping time of the following country-wide advertising year. boat load, is run across to Chicago. When matter and other media, that will acless than a full load it is given to one quaint the masses of the United States of the larger boats at South Haven.

ed in the first lines. The abundant sup- fact that it is open to a wider range of ply of water pumped up from the old dam uses than any other product, easily preand converted into an insect-killing con- pared, easily digested, and appetizing to coction and then sprayed on hundreds of all; and with the further fact that, when thousands of a great variety of fruit bought in substantial quantities, it is one trees in the vicinity, has caused this of the most economical foods. It will ship loading contrivance to become one of furnish the money for an educational the most famous fruit shipping points on propaganda among retailers, convincing

In the rear of the storage house is a capacious drive-way in which may be seen at times all the way from five to 25 load. The line of teams reaches far out on the country roads in two directions. It is a common thing for a steamer to stop the apple by and thus lessen the contwo hours to load at this pier, and there sumption to no small degree. But in spite have been occasions when the one little

There isn't a thing that grows on vine or tree in this entire community that is change of this kind necessarily captures stuff manufactured from the water of There is another service at Pier Cove this old dam. All of it is made after apamong the best tilled and most prolific verine domain. Illinois.

J. L. GRAFF.

ADVERTISING THE APPLE.

ed with filled barrels, crates, and baskets that possesses the mind when it is stat- large organizations selling tropical fruits ed that the apple is to be systematically has familiarized every household with the advertised in all the markets of the coun- variety of ways in which these products try and Canada, is, "How will the ad- may be used as human food and medivertising expenses be distributed properly cine and this knowledge, together with among those benefited by the publicity other advertising influences, has resulted work?" The answer is found in the stamp in a very appreciable increase in the use plan. The details of this plan are as of the tropical fruits and in a detriment follows: The stamps will be issued in to the apple. The difficulty is not with two denominations-one cent and two the apple as a fruit, but with the methcent. stamp will be placed, and for every bar- seeking to promote its wider use includes rel a two-cent stamp will be used. The a plan for improving distribution. If adman who has 50 packages to market will vertising has been of so great a benefit buy 50 stamps, while he who has 1,000 packages will buy 1,000 stamps, etc. The tion and study seem to indicate, then entire issue of stamps will be in the these promoters of larger apple sales apcustody of a Trust Company, who will pear to be reasoning along logical lines. act as trustees of the fund. This Trust Company, through banks in the various sections of the country, will sell the stamps to every grower and shipper or of fruit, and by gravity are rolled out to dealer who applies for them, either in the lake end of the pier where a small person or by mail. The stamps will be steamboat is tied. No fruit is rolled out placed on sale in the various distributing the pier until the boat is in sight. agencies on August 1, 1913, in time to While one car is being unloaded at the create an adequate fund for advertising

There are definite purposes for which campaign, The fruit, when there is a full through newspapers, magazines, printed and Canada with the great food and But to go back to the subject mention- health-giving value of the apple; with the the Great Lakes. Just a few years ago them that modearte profits and many



markets and observed that where apples, bananas and citrus fruits were displayed only about 25 per cent of the buyers bought apples. General observation would indicate that the above is about an average percentage of apple purchases to the sales of other fruits. Nor is the apple used as generally in the kitchen as formerly, other kinds of fruits and foods are being allowed to take its place. Among the poorer families of our cities apples are as much of a luxury today as oranges were several years ago. Because of prohibitive retail prices these people who must economize at every turn pass of this decrease in the use of the apple the consumption of bananas and citrus fruits is largely increased. An economic the attention of apple growers and dealers and compels them to seek the reason for the new order.

Men who have made a careful examination of the facts are unanimous in their decision that the ascendancy of the citrus fruits and the banana to a higher commercial level and the declining popularity of the apple are due almost entirely to the advertising that the former kinds have received. A continuous sys-To the uninformed the first question tematic campaign of publicity by the On every box of apples a one-cent ods of selling it and the program of those to the tropical fruit industry as observa-

COLD DAMAGES FRUIT.

While the last report of the Secretary of State on Michigan fruit is very promising in that the condition of apples was put at 83 per cnt, pears 86 per cent, peaches 82 per cent, plums 84 per cent, cherries 89 per cent, and small fruit 90 per cent, the cold nights since the report issued have worked havoc not only portant fruit producing states.

In this state the damage was greatest in the central and southern counties, although many sections in the northern districts report injury to fruits, particularly on the lower land. In Berien and Van Buren counties the estimates of loss ranges from 25 to 50 per cent of all the early fruits, and grapes and peaches. Muskegon, Oceana and Mason counties also report serious injury to orchards not located on elevated positions. In the Grand Traverse section but few reports of damage have been made and it is believed that less harm has resulted there than in sections farther to the south. In the southeastern counties the loss will amount to considerable to all fruits except winter apples.

The cold wave was general over the north central and eastern states and untold damage to fruit and vegetable crops in Deleware, Maryland, Virginia and New Jersey has been done. The damage was particularly serious in Delaware and Maryland, where in many places ice formed. The most serious injury was to potatoes and tomatoes. Strawberries, particularly in Delaware, where shipping was just commencing, were seriously injured. Tomato plants, beans, peas and other vegetables also suffered extensively. The damage on the eastern shore of Virginia,



7-623



Car Loaded with Baskets of Fruit Runs by Gravity form Storage seen in Distance down to end of Dock where Fruit is Loaded on Boat.

Pier Cove shipped from this little storage sales is in the end the most porfitable house and its pier extension, no less than policy. The achievement of this end will three million fifth-bushel baskets of in itself remove a great obstacle to the peaches, not to mention any of the other widespread consumption of apples. It same place. It is a not uncommon thing for the Pier Cove and Fennville district to ship a quantity of apples that amounts to 1,500 railroad cars. Pier Cove alone shipped 1,000 car loads three years ago. It is estimated that not less than 100,000 barrels of apples will be rolled over Pier Cove pier to shipside during the remaind-watched purchases of fruit from retail kinds of fruit that found market from the will obviate the necessity of making re-

from all reports, was not quite so extensive. Potatoes were hurt to some extent. Growers were just setting out their sweet potato plants. Most of these were killed. but it is believed the growers can secure more plants and the freeze will only delay the maturity of the crop a short In New York state the damage to time. fruit does not appear to have been serious. Vegetables were not far enough advanced to be hurt.



1.2.4

STALLIONS

The Michigan Farmer Established 1843.

The Lawrence Publishing Co. Editors and Proprietors. 39 to 45 Congress St. West, Detroit, Michigan.

NEW YORK OFFICE-41 Park Row. OHICAGO OFFICE-600 First Nat'l. Bank Bu OLEVELAND OFFICE-1011-1015 Oregon Ave.	ilding.
M. J. LAWRENCE	President.
I. R. WATERBURY O. E. YOUNG BURT WERMUTH	Associate Editors.
	NY CONTRACTOR OF CONTRACTOR

E. H. HOUGHTON Business Manager TERMS OF SUBSCRIPTION: ..50 cen One year, 52 issues... Two years, 104 issues Three years, 156 issues Five years, 260 issues 1.25

WE GUARANTER to stop THE MICHIGAN FARMER immediatly upon expiration of time sub-scribed for, and we will pay all expenses for defending any suit brought against any subscriber to The Mich-igan Farmer by the publisher of any farm paper, which has been sent after the time ordered has expired, providing due notice is sent to us, before suit is started. Avoid further trouble by refusing to subscribe for any farm paper which does not print, in each issue, a definite guarantee to stop on expiration of subscrip-tion. The Lawrence Publishing Co., Detroit, Mich.

This law, known as House Enrolled Act erating capital and profits. No. 119, provides for the licensing of It was found in this investigation that

the law. This license to do a commission business is obtained from the State its, but where one-third of the total cap-Dairy and Food Commissioner upon mak- ital was in the form of operating capital ing application and payment of a fee of such as live stock, machinery and cash \$15 in cities of less than 20,000 population and \$25 in cities of more than 20,000 population.

shall not be issued upon application, pro- credit which will enable the large class vided a complaint from any consignor of of farmers who are unable to finance road for all but a few weeks or months farm produce to the applicant shall have their business properly to add to their during the year, and then it is not bad, been filed during the preceding year on operating capital and thus increase their any of the grounds specified in the law, porfits. and established as true upon investigation by the commissioner. Power is given the commissioner and his assistants Australian Beef in Amto investigate all charges of unfair dealings and hold hearings on same. He is fully empowered to refuse to grant or to with the promise of more to follow to be ity and purity make better crops. Farmrevoke a license already granted where

trade;

tity of goods received or held for sale on rather extravagant, the claim being made about Alfalfa, Sand or Winter Vetch, commission;

misleading statements as to market con-

tions to fix prices below the market level; one time western cattle kings, while news course of dealings of such nature as to a number of new refrigerator steamships satisfy the commissioner of the inability for this trade. of the commission merchant to properly Possibly the anticipation of free meat 1913, and to go into effect 18 months deceive or defraud customers;

THE MICHIGAN FARMER directly or indirectly purchases the goods Australian meat can be brought into the package in terms of weight, measure or

consignor thereof."

with the returns of which they are dis- been the case in this country since the York during the week of June 9, and other satisfied. The commissioner is required great development of our agriculture. by the law to treat such application as tion of same to be made.

both upon conviction on any one of the the industry might be increased in these counts above enumerated. Retail dealers, countries it is quite certain that the real estate dealers and auctioneers selling choicer products will not be sold in the farm products on commission are specifi- United States at a price below the world's cally exempted from the terms of the price level, and while meat from these law.

Commission Merchants' been made in on this point, however, have been lacking until recently, when the Wisconsin Experiment Station conducted an investigation which was pending before the New York in with the idea of showing the relation with the idea of showing the relation in the idea of showing the relation with the idea of showing Legislature. A bill somewhat similar in its provisions was introduced in the Michigan House of Representatives by Mr. Follett during the recent legislative are thought to indicate quite plainly the

and buildings, made relatively small profwith which to do business, the profits were increased to a maximum degree. This is another argument for the estab-The law provides that such licenses lishment of an adequate form of rural

> The importation of a eargo of refrigerated beef erican Markets.

from

ditions with intent to deceive; of the cattle business there on a scale J. Bro "(5) Where there have been combina- even greater than the operations of our -Adv.

conduct the business, or of an intent to under the new tariff law may have some- from that date, requires that the quan-

for his own account without prior au- American market in quantities to have numerical count. The thority therefor, or without notifying the any very material effect on the produc- pointed by the secretaries of the Departonsignor thereof." tion of Central United States. Up until ment of Commerce, the Department of Provision is made for an appeal at law the present time the United States has the Treasury and the Department of Agby commission merchants who are re- contributed largely to the world's supply riculture to draw up regulations for the fused licenses or whose licenses are re- of meats, but in recent years the produc- enforcement of this law announces that voked. Shippers of farm produce are tion has fallen off to such an extent that it is now ready to receive recommendaprivileged to make an appeal to the State at the present time prices are advancing Dairy and Food Commissioner in writing until they more nearly approach the first hearings for manufacturers, dealers within 60 days after making a shipment world's price level for meats that has ever and others interested will be held in New

With the falling off of a large surplus a complaint and cause a full investiga- in exports from this country the Euro- munications for this committee should be pean meat supply has been largely con- addressed to the Net Weight Law Com-A penalty clause is attached to the law, tributed to by the frozen products from mittee, Department of Agriculture, Bu-providing a fine or imprisonment or Argentine and Australia. Even though reau of Chemistry, Washington, D. C. sources might compete in seaboard towns The State Dairy and Food Commissioner with our own product, the added charges

road would seem to be well adapted and perhaps as economic as any yet devised. But for the roads in the interior of the state and, in fact, in all except those which are adjacent to large cities where traffic conditions are unusually severe, gravel is undoubtedly the best material to use. A gravel road well laid and given good care is the best possible kind of nor is the upkeep expensive if the road is not neglected from the start.

GOOD SEEDS.

It is always economy to plant the best Australia, seeds obtainable. Seeds of strong vitaldistributed in Pacific coast cities, has ers should test the Seeds they plant and revoke a license already granted where the subject of widespread find out for themselves if they are good. Out on strike. "(1) False charges have been imposed comment and speculation in the public for handling or services, or charges other press. Various economic reasons are giv- tunity of testing their seeds should put failed through poor management. parties, or other than those customary in chief among which is that it is directed We are most heartily in favor of the ade; (2) Where there has been a failure to who, it is contended, have been charging to how to make two blades of grass grow trade; "(2) Where there has been a failure to account promptly and properly or to make settlements with intent to defraud; "(3) Where there have been false state-"(3) Where there have been false state-ments as to condition, quality or quan-the predictions with regard to the deing business are ments as to condition, quality or quan-the predictions with regard to the deing business are ments as to condition, quality or quan-we can be defraud; "(3) Where there have been false state-ments as to condition, quality or quan-we can be defraud; "(3) Where there have been false state-ments as to condition, quality or quan-we can be defraud; "(3) Where there have been false state-ments as to condition, quality or quan-we can be defraud; "(3) Where there have been false state-ments as to condition, quality or quan-we can be defraud; "(3) Where there have been false state-ments as to condition, quality or quan-we can be defraud; "(3) Where there have been false state-ments as to condition, quality or quan-we can be defraud; "(3) Where there have been false state-ments as to condition, quality or quan-we can be defraud; "(3) Where there have been false state-ments as to condition, quality or quan-we can be defraud; "(3) Where there have been false state-ments as to condition, quality or quan-we can be defraud; "(3) Where there have been false state-ments as to condition, quality or quan-we can be defraud; "(3) Where there have been false state-ments as to condition, quality or quan-we can be defraud; "(3) Where there have been false state-ments as to condition, quality or quan-we can be defraud; "(3) Where there have been false state-ments as to condition, quality or quan-we can be defraud; "(4) Defraud an be defraud; "(4) Defraud an be defraud; "(5) Defraud an be defraud

committee tions and suggestions in writing. The ever there is sufficient demand. Com-

HAPPENINGS OF THE WEEK.

National.

Early this week the United States Su-preme Court settled questions of particu-lar interest to Michigan people. The Chandler-Dunbar water power condem-The state of the state state of the state of the state of the state of the state of

pier. The rapidly increasing traffic on the electric lines of southern Michigan has necessitated the substitution of trolley trains for single cars, which will be made about the first of July. Mining corporations at Bessemer, Mich., have made protests against the increased assessments by the board of review of mining properties and the matter will probably go before the courts before it is settled. settled. The Grand Masonic lodge of Michigan

opened a two-day session at Lansing on Tuesday. Believing that affairs of the department of public works have not been conducted along economical lines, Lansing aldermen are demanding a grand jury to investi-gate the department. At the annual meeting of the stock-holders of the Michigan Sugar Company, holders of the Michigan Sugar Company, at Saginaw, Monday, it was announced that the factories would do business this summer regardless of the disposition of the sugar schedule by Congress. Electric linemen of Saginaw have gone out on strike.

Foreign.

The Emperor or Japan is rapidly im-

welopment of this importing business are and encircle to specify the soil. Ask for information as the result of running on one of the about Alfalfa, Sand or Winter Vetch, that capital has already been subscribed to have been drowned.
(1) Where there have been combinations with intent to deceive;
(6) Where there has been a continuat obvirse of dealings of such nature as to a number of new refrigerator steamships atisfy the commission merchant to property onduct the business, or of an intent to ecceive or defraud customers;
(7) Where the commission merchant to property onduct the business or defraud customers;
(7) Where the commission merchant to property of the contents of food packages be a bout with Arthur Pelkey, at Calgary, a "(7) Where the commission merchant is a subscribed to a continuation of the solid in the first round in the development of the solid statements are proposed to have been drowned.
(6) Where there has been a continuation of new refrigerator steamships is also current regarding the building of a number of new refrigerator steamships of the commission merchant to properior of the solid statement. It is doubtful, however, if plainly marked on the outside of each alberta.

MAY 31, 1912.

THE MICHIGAN FARMER

Veterinary.

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 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.

Abscess.—I have a four-year-old mare that is troubled with small boils on her shoulder and back. I feed her corn, oats and mixed hay. G. A. L., Shelbyville, Mich.—Give your mare a dessertspoonful of Donovan's solution at a dose three times a day. Also apply the following lo-tion three times a day: Dissolve ¼ lb. acetate of lead, 3 ozs. sulphate of zinc and 3 ozs. of tannic acid in a gallon of clean boiled water. It is needless for me to say that the collar and saddle pad should be kept clean, and wet every evening with one part bichloride mercury and 100 parts water. Tronic Cough-Surfeit – Stocking.—I had a cough and he is not rid of it yet. I gave him ginger, but it failed to re-lieve him. This same horse has a sort of rash or pimples on back that do not break open, but scale; besides, when allowed to stand in barn over night his ankles stock. I forgot to say that lower part of hind legs ooze a yellow watery fluid. D. D., New Baltimore, Mich.—Give him ½ oz ground licorice, ½ dr. of powdered opium and 1 dr. muriate ammonia at a dose in amp feed there times a day. Also give him a dessertspoonful of Fowler's solu-tion at a dose three times a day. Dis-solve ¼ b. borax in a half gallon of water and wet sore parts of body twice a dy dr. subphate of zinc in a pint of water and apply to sore heels two or three imes a day.

times a day. Timpure Blood-Blotches on Skin.-When I was breaking my three-year-old filly she broke out in blotches which pretty much covered the whole body and I would like to know what to do for her. These blotches appear to leave her in the fall, to return again in the spring. C. B., Jones, Mich.-Give her 1 dr. potassium iodide, ½ oz. fluid extract sarsaparilla and a teaspoonful powdered nitrate of potash at a dose in feed twice a day. Apply one part oxide of zinc and five parts vaseline to blotches two or three times a week. Splint.-I have a yearling colt that has a splint on each fore leg situated on the inside of leg below knee. These bunches are quite large and I am anxious to have them reduced. E. E. G., Gem, Texas.-You will obtain fairly good results by ap-plying one part iodine and ten parts fresh lard to splint twice a week. Kind-is not easily reduced. Chronic Cough-Heaves.-For the past 12 months my seven-year-old horse has been troubled with cough, caused, I be-lieve, by eating poorly cured clover. I have been smoking him with camphor Impure Blood-Blotches on Skin.-

been troubled with cough, caused, I be-lieve, by eating poorly cured clover. I have been smoking him with camphor gum and tar, but it does not relieve him much. He breathes much the same as a horse with heaves. I have tried all the remedies I can think of, but none of them relieve him. J. H. V. A., Marion, Mich.—Feed no clover or musty badly cured fodder, but feed him mostly grain and grass; also give him a dessertspoonful of Fowlers' solution, a teaspoonful fluid extract lobelia, a teaspoonful fluid extract gentian at a dose in feed three times a day.

day. Obstructed Teat.—I have a helfer that Obstructed Teat.—I have a heifer that came fresh two weeks ago; one of her teats has had to be opened every time I milk her and I would like to know if I can do better by using milking tube. There does not appear to be a very good natural opening in teat. R. K., Capac, Mich.—I know of no better treatment than to dilate teat opening with a silver or steel probe; or a milking tube large enough to dilate teat opening. Kindly understand, instruments that are used for this work should be thoroughly clean-ed and dipped in a solution of carbolic acid, not weaker than three per cent. Inflamed Glands.—We have a yearling

concealed bystonry curring and marking canal a little larger is considered good practice. A hard milker is usually al-ways rather hard to milk. Infected Udder.—I have a Holstein cow nine or ten years old that dropped her last calf April, 1911, and has given milk until about six weeks ago. Her milk got bad, somewhat resembled pus and I dried her. She is on grass now and is not much better, but as she is due to come fresh, next August, I would like to know if you believe her milk at that time will be nor-mal or not. R. S. B., Berville, Mich.— It is very doubtful if she will give nor-mal milk for any great length of time; however, if you intend to keep her rub her bag with iodine ointment two or three times a week. Prolapsus, or Eversion of Oviduct.—I am having trouble with my poultry; found a hen straining and hind parts hanging out; they seemed to have turned inside out. I placed her in a coop by herself and she recovered. I applied a healing powder to raw parts which were covered with red blotches. There are several others of my flock affected, be-sides their bowels are red and the hens are laying well. What is the cause of this trouble and what can I do for them? Mrs. J. K. A., West Branch, Mich.—Your hens are suffering from prolapsus of the oviduct, an aliment which frequently af-fects old hens which have been great layers. Over-feeding on too stimulating food, constipation and straining to expel arge eggs are common and direct causes. I have known it to occur as a result of inflammation of the oviduct or it may result from any other condition which might prevent the passage of the egg. Prolapsus often occurs from efforts to expel an egg. As soon as symptoms of prolapsus are seen, catch the bird and notice if the egg has been stopped in the passage; if so, remove the egg, which is most easily done by crushing it. Give 3 drops fluid extract ergot at a dose three times a day, and wash out oviduct with a solution made by dissolving 2 grs. permanganate potash in a pint of clean boiled water. The protruding p

has been thoroughly disinfected. The sore parts should be treated three times a day. Distemper—Asthma—Weak Heart.—I have a five-year-old horse that had dis-temper 12 months ago and never fully recovered. When drinking water a por-tion returns through head and out of nostrils. His appetite is good, but he is short of wind, and at times I suspect heaves. When he is working he breathes fast and pants. H. C. M., Burt, Mich.— Feed no clover or musty, dusty hay, and only a small quantity of bulky fodder. Give him a dessertspoonful of Fowler's solution, I dr. fluid extract lobelia at a dose in-feed three times a day. Kindly un-derstand, he should not be over exerted, but fed a good quality of food, and nev-er allowed to stuff himself with too much water or food. Exercise him daily. Bowels Move too Often.—I have been







Butter Profits

Markets.

GRAINS AND SEEDS.

May 28, 1913. Wheat.—The past week has been fav-orable to the bull side of the market and prices show a general advance in both cash and future sales. The reason for the upward trend is practically a reverse of the conditions supporting the market during the past weeks when the strong European demand was given the credit. At recent sessions of the market a num-ber of reports have come in of the dam-age to the American crop. Chinch bugs and grasshoppers are decreasing the out-look in some sections; in Missouri the Hessian fly is working injury to the plant; Kansas reports lower prospects, while Minnesota and North Dakota are suffering for moisture. On the other hand, crop conditions in Europe show some improvement which has eased slightly on the demand from that quar-ter. But altogether, conditions have fav-ored the selling side of the trade. The world's visible supply is calculated at 20,000.000 buscles less than a year ago. The local prices for No. 2 red wheat at this date for 1912 was \$1.16 per bu. Quo-tations for the past week are as follows: No. 2 No.1 Red. White. July. Sept. Thursday109½ 1.03½ 91½ 91½ Saturday10 1.09 92¾ 92½ 22 Monday10 1.09 92¾ 92½ 22 Monday10 1.09 92¾ 92½ 22 Monday10% (1.03¾ 91½ 91½ 91½ Saturday10% 1.03 92¾ 92½ 22 Chicago, (May 27).—No. 2 red, \$1.08@ 1.09½; July, 91%c; Sept., 91c; Dec., 92%c per bu. Ne. Work, (May 27).—May, \$1.01¾; July, 99%c; Sept., 98%c per bu. May 28, 1913.

1.09½; July, 91%c; Sept., 91c; Dec., 92%c per bu. New York, (May 27).-May, \$1.01%; July, 99%c; Sept., 98%c per bu. Corn.-The drift of this market con-tinues to benefit sellers since prices are gradually advancing to a higher level. While the new crop is practically all in, the weather has been rather unfavorable for the grain's getting a good start, a matter which will probably have an in-fluence upon the resulting crop. Prices at Detroit and Chicago show a general advance for the week of about 2c per bu. The advance may have been greater were it not expected that offerings would in-crease now that farmers are a little more free to make deliveries. The local mar-ket continues quiet with the demand fair. One year ago No. 3 corn was quoted here at 79c per bu. Quotations for the past week are: No. 3 No. 3 Corn. Yellow. No. 3 Yellow. 59½

	and a standard for a fi				Corn.									
and the second second													1000	
														571/2
Friday														59
Saturday										1				59
Monday														591/2
Tuesday														591/2
Wednesday	7													591/2
a first state of the state of the				<u> </u>	1			1.2				-	L	

	No. 8
Standar	d. White.
Thursday 411	2 401/2
Friday 421	/2 411/2
Saturday 421	411/2
Monday 421	
Tuesday 43	42
Wednesday 421	/2 411/2
Chicago (Mor 27) No 2 r	white All

Chicago, (May 27).—No. 2 white, 41½ @41¾c; standard, 41¼@41¾c; July, 38c; Sept., 37¾c; Dec., 38¼c per bu.

(a) 413 (c) standard, 414 (a) 413 (c) July, 386;
Sept., 37% (c) Dec., 381/4 c per bu.
Beans.—This market is doing absolute-ly nothing in the bean deal. The quota-tions published by the local board of trade are comparatively lower than quo-tations from other points and holders of beans are not shipping here. The nom-inal quotations continue at \$2.05 per bu.
for prompt and June shipment at coun-try points. Michigan Farmer crop re-porters state that they are receiving bet-ter prices out in the state than are of-fered at Detroit.
Chicago, (May 27).—Prices here have held steady at the advanced figures giv-en a week ago. Beans are handled al-most entirely by dealers and not on a commission basis. There is a fair de-mand and while the supply is ample it is not so large as to cause much bearish pressure at the present range of values. Pea beans, hand-picked, fancy, are quot-ed at 2.421/202.45; choice, \$2; 40; prime, \$2.30; red kidneys, \$2; white kidneys, \$2.50 per bu.

ed at \$2,322(02.10, clotter, \$2.40, primes, \$2.30; red kidneys, \$2; white kidneys, \$2.50 per bu.
Clover Seed.—The Detroit market is doing nothing. At Toledo cash seed is quoted at \$13; October, \$7.82½; and December \$7.80. all being below quotations published last week.
Timothy Seed.—At Toledo this product is quoted at \$1.97½ for prime, cash and May, and \$2.12½ for September. These prices are below quotations of last week.
Ryc.—The call for rye has decreased during the past few days with local quotations unchanged from one week ago, cash No. 2 being quoted at 63½c per bu.
At Chicago the same grade is quoted at 1.2 being the grade grad per bu. Barley.—This grain shows a narrowing of quotations, the higher figures remain-

10½@18½C; do., cases returned, 10@18C; ordinary firsts, 16¾@17%C; firsts, 18¾@19¼C per dozen.
New York.—Steady and practically un-changed. Fresh gathered extras, 22½@
23c; fresh gathered storage packed, firsts 20½@22c; western gathered, whites, 20
@23c per dozen.
Poultry.—Quietness rules in the poultry markets just at present. Locally values are lower this week on every kind and grade with the exception of broilers, Quo-tations are: Live.—Broilers, 30@32c; hens, 16½@17c; No. 2 hens, 12@13c; old roosters, 11@12c; turkeys, 17@18c; geese, 12@13c; ducks, 17@18c per lb.
Chicago.—Under moderate offerings and little activity on the part of buyers this market holds quiet and unchanged. Quo-tations on live are: Turkeys, good, 15½c; spring chickens, 30@32c; ducks, 14c; geese, full feathered, 9c; do., pluck-ed. 7@8c per lb; guinea hens, \$4 per doz.
Cheese.—Brick cheese fractionally high-er. No other changes. Wholesale lots, Michigan flats, new, 13½@14c; old, 16¼ @17c; New York flats, new, 14½@15c; old, 17@17½c; brick cream, 14@14½c; limburger, 18@19c.
Veal.—Steady; trading not active. Fancy, 12@13c; common, 10@11c. Chicago.—Firm and ½@1c higher un-der light offerings. Fair to choice, 80@ 110-lbs., 12½@13½c; extra fancy stock, 14c; fair to good chunky, 12@12½c.
FRUITS AND VEGETABLES.

FRUITS AND VEGETABLES.

Chicago. May 26, 1913. Cattle. Hogs. Sheep. Received today24,000 37,000 22,000 Same day last year. 20,327 54,505 19,515 Received last week...40,120 133,899 84,246 Same week last year.39,966 141,159 74,955 The week opens today with a very good demand for butcher stock and handy lit-tle steers at steady prices, but the heav-ier class of steers sells very slowly and Apples.—This fruit is firm with prices is frequency in the post of steers sells very slowly, and they are also of steers sells very slowly, and they are and the sheep of container ysmall the steers at steady prices, but the heaver is greatly improved.
 Apples.—This fruit is firm with prices is frequency in the very states, with soles at steady prices, but the heaver is provided with soles at steady prices, but the heaver is slow is slow in the very share in lively general demand, open ing 10c higher and becoming 15@174% is provided with soles at \$8.30@8.80 small to its is standard time, at W. J. Spicer and J. T. Miller at their fruit is and its west of Birbard in the very packing hogs bringing is provided with soles at \$8.20 and over. Hogs received last week is averaged 245 lbs., compared with 233 lbs.
 Potatoes.—The past two weeks have been important noes in the potato deal, the big rain storm made the sheep's slugish condition to where the pressure feed, with prices showing a weakening in the other weaken ing independency except for the better class of the supply, and they graded better than last week.
 New York farmers' hands limited. At Philtsburg supplies cannot be secured to supply the demand. The same is true at is tweek, and all that prevented considiation and early selling of old potatoes are going around 75c. The scarcity of the best grade represent for the sudden advance. Lo- suited in their ruling steady, and on the moved.

<page-header><page-header><page-header><text><text><text><text><text><text><text><text><text><text><text><text><text><text><text><text><text><text><text><text><text><text><text><text><text><text><text><text><text><text><text><text>

MEETING OF OAKLAND COUNTY HORTICULTURAL SOCIETY.

HORTICULTURAL SOCIETY. The Oakland County Horticultural So-clety will be entertained by Messrs. W. J. Spicer and J. T. Miller at their fruit farm, two and a half miles west of Bir-mingham on Saturday, June 7. The meeting will commence at 10:30 a. m. standard time, at W. J. Spicer's res-idence. "Small Fruits on a General Farm," will be discussed in the forenoon. Lunch will be served at 12:00 o'clock. A 1:00 p. m. Prof. O. K. White, of M. A. C. will give a lecture and orchard demonstration on "Thinning Fruit." Con-veyances will be at the Birmingham D. U. R. waiting room at 10:00 a. m., stan-dard time, to meet anyone who may wish to attend the meeting. All members and anyone interested in horticulture are very cordially invited to attend.-Sarah E. Sly, Sec.

THIS IS THE FIRST EDITION.

In the first edition the Detroit Live stock markets are reports of last week; all other markets are right up to date. 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.

DETROIT LIVE STOCK MARKETS.

Thursday's Market. May 22, 1913. Cattle.

Cattle. Receipts, 884. All grades strong at last week's and Wednesday's prices. We quote: Best steers, 88.50; steers and heifers, 1000 to 1200, \$7.50@7.75; do. 800 to 1000, \$7.25@7.65; do that are fat, 500 to 700, \$6@7; choice fat cows, \$6.25@ 6.50; good do., \$5.50@5.75; common cows, \$4.50@5; canners, \$3.75@4.25; choice heavy bulls, \$6.50@7; fair to good bolognas, bulls \$6.50@6.75; stock bulls, \$5.50@6; choice feeding steers, 800 to 1000, \$7@7.25; fair feeding steers, 500 to 700, \$6.25@6.75; choice stockers, 500 to 700, \$6.25@6.50; fair stockers, 500 to 700, \$6.20; fair stockers, 500 to 700, \$6.20; fair stockers, 500 to 700; fair stockers, 500 to 700; fair stockers, 500 to 700; fair stockers, 500 t

choice stockers, 500 to 10 to 100, 30.23.07.03, heif stockers, 500 to 700, \$606.25; stock heifers, \$506.50; milkers, large, young, medium age, \$600.90; common milkers, 30.045. Spicer & R. sold Sullivan P. Co. 6 steers av 911 at \$7.30, 3 do av 853 at \$7.30, 1 cow weighing 880 at \$6.25, 1 do weighing 1020 at \$6.50, 1 do weighing 1050 at \$6, 8 butchers av 582 at \$6.90; to Ward 2 cows av 785 at \$5; to Newton B. Co. 9 butchers av 582 at \$5; to Ward 2 cow and bull av 1020 at \$6.50, 1 cow weighing 1100 at \$5.50; to Mason B. Co. 18 do av 877 at \$7.55; to Rattkowsky 2 cow and bull av 1020 at \$6.50, 1 cow weighing 1100 at \$5.50; to Mason B. Co. 9 butchers av 372 at \$6.15. Bishop, B. & H. sold Bresnahan 6 steers av 695 at \$6.25; 2 cows av 775 at \$4.25; to Parker, W. & Co. 1 bull weighing 1600 at \$6.50, 1 do weighing 900 at \$6, 4 cows av 1137 at \$5.50, 2 steers av 790 at \$7, 45 do av 1044 at \$7.70, 1 bull weighing 1100 at \$5.55, 8 do av 997 at \$6.25; 1 steer weighing 1220 at \$7.50, 1 bull weighing 900 at \$6.25, 3 do av 1580 at \$5.5, 1 steer weighing 1220 at \$7.50, 1 bull weighing 900 at \$6.25, 3 do av 1580 at \$6.75, 11 steers av 1016 at \$7.60, 4 cows av 990 at \$6, 3 steers av 807 at \$7.10, 3 cows av 970 at \$6.55; 0 Hammond, S. & Co. 1 bull weighing 1000 at \$5; to Bresnahan \$ steifts at \$6.50, 1 cow weighing 1220 at \$6.50, to way 51 at \$5.5, 8 do av 994 at \$7.60, 9 do av \$91 at \$5. 2 do av 800 at \$5; to Bresnahan 3 heifers av 600 at \$7.51 brewton B. Co. 39 steers av 994 at \$7.60, 9 do av \$91 at \$5. 2 do av 800 at \$5; to Bresnahan 3 heifers av 800 at \$5.55 bresnaha

Sheep and Lambs. Sheep and Lambs. Receipts, 1824. Market strong at last week's and Wednesday's prices. Best lambs, \$7.50; fair do., \$7@7.25; common do., \$4.50@6; fair to good sheep av 5.25@ 5.50; culls and common, \$2.50@4. Bishop, B. & H. sold Sullivan P. Co. 33 lambs av 55 at \$5.50, 2 sheep av 110 at \$5, 4 do av 105 at \$4; to Thompson Bros. 30 lambs av 70 at \$7.50; to Mich. B. Co. 40 sheep av 90 at \$5; to Hammond, S. & Co. 20 sheep av 95 at \$5.50, 4 do av 100 at \$4.50; to Kull 11 do av 88 at \$4.50, 24 lambs av 60 at \$6.50; to Young 44 do av 78 at \$7.25; to Barlage 17 spring lambs av 48 at \$8; to Parker, W. & Co. 104 mixed av 78 at \$6.40; to Mich. B. Co. 14 weighing 190 at \$4.50, 27 sheep av 90 at \$5.50, 21 do av 60 at \$6; to Young 36 do av 55 at \$7.50. Haley & M. sold Sullivan P. Co. 4 sheep av 90 fat \$5, 50, 21 do av 60 at \$6; to Mich. B. Co. 78 sheep av 85 at \$5.50; to Haley & M. sold Sullivan P. Co. 4 sheep av 107 at \$4.75, 2 spring lambs av 60 at \$10; to Newton B. Co. 22 sheep av 105 at \$4.50, 32 lambs av 76 at \$7; to Goose 11 sheep av 120 at \$4.50. Roe Com. Co. sold Barlage 13 sheep av 100 at \$4.51, 1 do weighing 180 at \$5; to Barlage 8 do av 98 at \$5, 46 lambs av 65 at \$5.55; to Mathes av 76 at \$4.50, 52; ho Newton B. Co. 22 sheep av 100 at \$4.50, at 84.75, 2 spring lambs av 105 at \$4.50, 32 lambs av 67 at \$4.50. Roe Com. Co. sold Barlage 13 sheep av 100 at \$5, 1 do weighing 180 at \$5; to Barlage 8 do av 98 at \$5, 46 lambs av 65 at \$5.75; to Mich. B. Co. 18 sheep av 105 at \$5.50; to Eschrich 43 mixed lambs av 105 at \$5. Sharp sold Mich. B. Co. 18 sheep av 105 at \$5. Sharp sold Mich. B. Co. 18 sheep av 105 at \$5. Sharp sold Mich. B. Co. 18 sheep av 105 at \$5. Sharp sold Mich. B. Co. 18 sheep av 105 at \$5. Sharp sold Mich. B. Co. 18 sheep av 105 at \$5.50.

Range of prices: Light to good butchers, \$8.75; pigs, \$8.75; mixed, \$8.75; stags one-third off.
Bishop, B. & H. sold Hammond, S. & Co. 2500 av 190 at \$8.75.
Same sold Sullivan P. Co. 310 av 130 at \$8.80.

Weighing 120 at \$9; to Newton B. Co. 14 av 150 at \$9:25, 9 av 140 at \$9, to D. Goose 3 av 140 at \$9.25, 9 av 140 at \$9.25; to J. Goose 38 av 130 at \$9.10.
Bishop, B. & H. sold Parker, W. & Co. 13 av 130 at \$9, 26 av 150 at \$9.25; to Sullivan P. Co. 1 weighing 160 at \$9.25; as av 140 at \$9.25; to Nagle P. Co. 7 av 150 at \$9.50, 13 av 140 at \$9.25; to Ham-mond, S. & Co. 16 av 140 at \$9.25; to Ham-mond, S. & Co. 16 av 140 at \$9.50; to Ham-mond, S. & Co. 16 av 140 at \$8.75; to Goose 4 av 555, 6 av 155 at \$8; to Ham-mond, S. & Co. 16 av 140 at \$8.50, 13 av 150 at \$9.25; to Nagle P. Co. 7 av 160 at \$9.25; to Sullivan P. Co. 7 av 160 at \$9.25; to Nagle P. Co. 7 av 160 at \$9.25; to Sullivan P. Co. 7 av 160 at \$9.25; to Sullivan P. Co. 7 av 160 at \$9.25; to Sullivan P. Co. 7 av 160 at \$9.25; av 125 at \$8; to Ham-mond, S. & Co. 16 av 140 at \$8.50, 61 av 150 at \$9.25; to Sullivan P. Co. 7 av 140 at \$7.9 av 155 at \$9; to Ham-mond, S. & Co. 11 av 140 at \$9.50, 6 av 161 of rain comes soon, meadows that were mown last year will hardly cut one-half ton per acre. Owing to lack of moisture oats are a poor stand and are not growing much. Some fields of wheat are looking fairly well, but some fields are looking very poor. Pastures are back-vard in starting on account of so much at \$9.25.
Dancer & K. sold same 3 av 165 at \$9.50.
Sheep and Lambs.
Receipts, 1824. Market strong at has solo, \$4.5000; fair do. \$700725; common ado, \$4.5000; fair do. \$700725; common ado, \$4.5000; fair do. \$700725; common ado, \$4.5000; fair to good sheep, \$2.5004.
Bishop, B. & H. sold Sullivan P. Co. 33 lambs av 750 at \$5.50; to Mich. B. Co. 30 lambs av v 105 at \$5.50; to Mich. B. Co. 30 lambs av v 105 at \$5.50; to Mich. B. Co. 30 lambs av v 105 at \$5.50; to Mich. B. Co. 30 lambs av v 105 at \$5.50; to Mich. B. Co. 30 lambs av v 0 at \$5.50; to Mich. B. Co. 30 lambs av v 0 at \$5.50; to Mich. B. Co. 30 lambs av v 0 at \$5.50; to Mich. B. Co. 30 lambs av v 0 at \$5.50; to Mich. B. Co. 30 lambs av v 0

a fair crop of strawberries of the late varieties. Livingston Co., May 26.—The weather for the past week has been very wet and cold and as a result there is probably not more than one-third of the corn planted, and what is planted would be better off out of the ground for it is so wet and cold that a poor stand is almost certain. Farmers are taking advantage of the cold weather and are rushing their plowing for beans as fast as possible. This is just the weather for hay and wheat, both of which are doing nicely. The frost did not do as much damage to fruit as was at first feared. Wool nearly all sold at from 17 to 20c per lb. Beans have not advanced in price as is usual at this season and not many are moving to market.

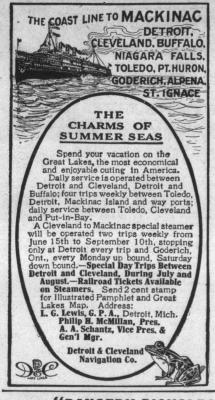
Fitzpatrick Bros. 7 spring tailes at a spring tailes are appeared to a spring tailes at a spring ta

Wednesday; 10@15c higher than the close late week.
Range of prices: Light to good butchers, \$8.75; plgs, \$8.75; mixed, \$8.75; stags one-third off.
Bishop, B. & H. sold Hammond, S. & Bishop, B. & H. sold Hammond, S. & Co. 2500 av 190 at \$8.75.
Same sold Sullivan P. Co. 310 av 130
Same sold Sullivan P. Co. 310 av 130
Fall grain, oats, meadows and pastures have a fine appearance. Spring seedings of clover caught good. We are not possitive but think that the freezing of May 7-8 has damaged the peach and plum prospects, also early apples, currants, etc., but late apples seem to be all right. This week is for the third spraying of orchards. The price of 1912 hay has dropped to \$8 per ton and slow sale at that. Spring pigs scarce and quite difficult to find, prices the highest ever known, \$3@5. Some farmers have sold their sheep. Wool at 18c and a prospect of still lower prices. Potatoes, 35c; oats, 36c; eggs, 18c; butter, 28c, and so on down the scale. Lapeer county will have the smallest acreage of beets ever known. May 23, 550@65.75; common cows, \$4.55
Gotte, stockers, 500 to 1000, \$6.50@6.75; stock hulls, \$5.50@5.75; common milkers, \$40
Market strong at Thursday's prices.
Yeal Caives.
Keceipts this week, 1169; last week, May has been a very cold month generation of April was nice and warm but may a stoce and warm but the cold weather the oats are looking better than usual for this time of the season. Hardly any live stock left for sale. Potatoes are mostly all out of the farmer's hands.

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







628 - 12

RANGER" BICYCLES FACTORY PRICES direct to you eap wheels. Other reli n \$12 up. A few good achines \$3 to \$8. 10 DAYS' FREE TRIAL We ship proval, freight prepaid, anywhere in U.S. att a cent in advance. DO NOT BUX a bicycle air of tires from anyone at any price until ig new catalog and special prices and a mar-er. A postal brings everything. Write it non, aster-Brake Rear Wheels, lamps, parta isundrischalf usual prices. Rider Agents re coining money selling our bicycles, tires Write today. TIRES MEAD CYCLE CO. DEPT. S-77 CHICAGO

Save \$1.50 on This Fine Hat The "Challenge"—a style the best dealers will soon h howing at \$3.00 and \$3.50. You get it from us for \$2.00 yearcel Fost and save you the middleman's profit YOUR MONEY BACK if not satisfactory. Made from Fir GUR MONEY BACK if not satisfactory. Made from Fir wor Feit in Licht Tan, Black, Pearl Gray and Tobacc Brown, beautifully trimmed and finished. Style in ever ine, was in every fibre. Order now-state sign and colo wear in every fibre. Order now-state size and colo enclose \$2.00. Write for Style Sheet 8 showing oth els, Free. ONE-PROFIT HAT CO., Danbury, Com

IGHTNING RODS **9c PER FOOT** Best Quality Copper-Extra Heavy Cable A better conductor than required by In-surance Companies. System complete with full directions for installing. No agents. You got wholesele mine You get wholesale price. Buy Direct-On Trial-Freight Prepaid Pay after you are satisfied. Our Rods are securely protecting thousands of farm homes and will protect yours. Write postal for FREE book on lightning protection. Tells plainly just the facts you will be inter-ested in. Ask for it today. The J. A. Scott Company Dept J Detroit, Mich.



WANTED -Girl for kitchen and dining room work. State Psycho-pathic Hospital, Ann Arbor, Mich. A nice position for a girl or middle aged woman who desires a permanent position and a good home and good wages. Add., Secretary of Psychopathic Hospital.

WANTED FOR U. S. ARMY-Able-bodied, un-married men, between ages of 18 and 35; citizens of United States, of good character and temperate habits, who can speak, read and write the English language. For information apply to Recruiting Officer, 212 Griswold Street, Detroit, Mich., Heaven-rich Block, Saginaw, Mich., 1st and Saginaw Streets, Flint, Mich., 144 West Main Street, Jackson, Mich., Huron & Quay Streets, Port Huron, Michigan.

YOUNG MAN would you accept and wear a fine to your friends? Or a Slip-on Raincoat Free? Could you use \$5 a day for a little spare time? Perhaps we can offer you a steady job? Write at once and get beautiful samples, styles and this wonderful offer. BANNER TAILORING CO., Dept. 356, Chicago. GOV EBNMENT Positions are easy to get. My free booklet X 892 tells how. Write today—NOW EARL HOPKINS, Washington, D. C.

BEAUTIFUL HIGH GRADE Souvenir POST CARDS for only THE REHM CO. WEEHAWKEN, N.J. 25 FLIES and mosquitoes, one of Clark's Fly Exits at-tached to screen lets them out, can't return thru exits, 10c ea., \$1 doz. Dr. L. W. Clark, Carterville, Mo.

Their Memorial Day Guests.

By MRS. F. NISEWANGER.

G. A. R., called a meeting of his com- claimed with flushed cheeks. to make arrangements for the com-

liness of it. "Well, boys, what are we going to do?" and they did. Commander Brandon asked informally.

stiff formality seemed out of place here. "Same old thing, I suppose," sighed meet in two weeks and report, omrade Williams. "Get one of the It was ten days before Mer Comrade Williams. Comrade Williams. "Get one of the It was ten days before Memorial Day preachers to donate us a talk, and get that Comrade Williams, with the town's the teachers to learn the children some Weekly News open in his hand, met Compieces and songs, and get the women to mander John Brandon on the street and decorate the Opery House and make bou- stopped to ask in surprised excitement: quets for the graves."

they knew the program as well as Com- gram appearing on the front page. rade Williams did.

"Seems like all patriotism's dyin' out of the present generation," Comrade Ellis regretted gravely. it almost seems like askin' for charity and

I hate to do it again." Comrade Brown straightened a little cane than usual.

"Seems like I'm too tired to do much young, and the boys sleepin' over on the think we had backslid." know our hearts are all right. hill Couldn't we just get some flowers and John Brandon put a trembling, sympa- a committee from the Memorial Associa-

"We'll sure do as much as to decorate the graves as long as there are any of us

"and when we're gone I s'pose they'll go undecorated." The old men pondered seriously and

Comrade Brown's suggestion.

"I guess we have earned a rest from getting up public exercises if we feel that way about it," Commander Brandon acquiesced, and the meeting was adjourned, boys have seen this. Seems like I couldn't could not quite bear to be with those who A week later a very different meeting was held in town. The band that organ-ized the previous season had been only able to buy the instruments needed. This spring they wanted new uniforms, and a cafeteria supper, followed by a short, bright program, had been arranged for their benefit by the matrons and young women of the town.

It was patronized liberally and, at the close of the program Roy Sargeant, leader of the band, requested that the young people remain for a short business meeting in which they should all be interested. When their elders had withdrawn, young Sargeant called the meeting to order and announced that a little matter in connection with their personal honor and the credit of the town, had just come to his attention and he felt that he should lay it before them at once.

"We have been disgracefully selfish and thoughtless," he began emphatically, then told swiftly and impressively of the little G. A. R. meeting his grandfather, as a member of Morley Post, had attended the week before. "Grandfather wasn't complaining, either," Roy added, hastily. "He just quietly told me how they felt about it when he got back from the meeting, and I carelessly inquired about their It's a wonder I thought to be plans. even decent enough to do that!" he railed at himself scornfully. "I think it is about time this vaunted "younger generation" forgot band concerts and ball games long enough to entertain our old soldier friends a little while. What is your pleasure in the matter?" and Roy sat dow

Half a dozen young fellows sprang to their feet. "I move that we organize a 'Sons of Veterans'," one said promptly. Then Bernice Rowell hastily addressed the meeting. "Not now, Mr. President," she exclaimed; "we girls want to be in this, definitely, too. I move that we organize a Memorial Association, to which all descendants and interested friends of the veterans are eligible."

Bernice's motion was seconded, thus coming before the meeting for discussion, and, when finally put, was carried unanimously.

One dollar yearly dues were decided upon, for incidental expenses and "so we can have money to hire a good speaker and not have our old soldiers feel that

don, the bent commander of Morley Post, address out of charity," Edith Loring ex-

Roy Sargeant, the newly elected presing Memorial Day. There was such a ident of the Memorial Association, asked: tiny handful of them, compared to the "Can't we keep quiet about this until all ing of being cared for, and the fascinastrong band that a few years ago met in our plans are made and the program is the hall for the same purpose, that they in the papers, giving the Post a pleasant almost shivered with the chill and lone- little surprise?"

Good committees were appointed on

Someway, parliamentary usage and all program, decoration, transportation and entertainment. Then they adjourned to

"'I thought we decided not to do anything when there would be no veterans' coats special this year." to pin flowers to, darkening her bright

"So we did," John Brandon acquiesced, eyes. "I s'pose they'll do "and I don't really know anything more all these things if we ask them to, but about it than you do, but I suspect our and loyal hearts beat a little quicker be-

"Looks good, don't it? I've had a kind and the rest remembered that he this of gone feeling ever since we made up these later years and it did not take spring leaned a little more heavily on his our minds not to do anything. Seemed most as bad as giving up Sunday and the opera house, but the procession form-worsn'n forgetting birthdays and weddin' ed, the band leading the way afoot, and of anything," he sighed. "It don't seem anniversaries. Seemed like the boys over to be possible to do much educatin' of the on the hill mightn't understand and would don for the veterans' wives who had been

Tom Williams openly wiped his eyes as have the hack take us over to put them thetic hand on his arm, saying; on the graves?" we all felt about the same over "Guess to reconsider, but it'll be all right now. things'll go off better than as if we had love. tried to help."

"And did you notice who's to speak?" the county! Costs money to get Tomlin-

sleep tonight till I've seen 'em all and asked 'em, so I guess I'd better be off.' A few days later each member of the Post received a neat invitation asking him to be the guest of the Association on Memorial Day, and further requesting him It was early in April that John Bran- one of the ministers is giving them an when called for shortly after one o'clock, to be ready to go to the G. A. R. hall as exercises at the opera house would begin promptly at two.

So Memorial Day drew near with a new ing of being cared for, and the fascination of having something in the nature of a surprise withheld. Automobiles left their garages prompt-

"We can and we will," was the answer, ly, went to the homes for the veterans and took them to their hall, where they always met to get their badges and the flag behind which they marched to the opera house. A little surprise awaited them here in the form of Bernice Rowell with a basket of flowers on her arm.

She met each old friend with a handclasp and a smiling greeting, and pinned a spray of flowers on each coat. have hosts of flowers for you to take to uets for the graves." "What's all this mean?" pointing to an the cemetery, but we wanted you to wear The old men listened half-heartedly; unusually elaborate Memorial Day pro- some, too," she explained with a gentle smile, the shadow of the coming time, to pin flowers to, darkening her bright

Trembling lips murmured "Thank you," youngsters waked up and are responsible cause of the loyalty of "the younger gen-for it." eration."

Vacancies in the ranks come fast in many autos to carry the little band to ed, the band leading the way afoot, and stopped at the home of Commander Branasked to meet there and await them.

At the opera house they were met by tion, and they marched in between a douwe all felt about the same over it. I ble line of the members to the seats re-come mighty near callin' another meeting served for them in front. The crowded house was almost as still as a vacant left to do it," Comrade Rice quavered, If the young folks are shoulderin' it, all building but throbbed with sympathy and

Commander Brandon's daughter, a sweet young matron with her little ones regretfully, but finally decided to follow Comrade Williams broke in excitedly, about her, marked the short line with "Lawyer Tomlinson, the best speaker in brimming eyes and hid trembling lips in her baby's hair as her father marched son, I can tell you. We won't feel like by. One felt that there would come a paupers this year. Wonder if all the Memorial Day after awhile when she

AT ANDERSONVILLE. By MRS. M. B. -RANDOLPH.

The August sun was beating with heavy waves of heat On scanty pine-tree shadows, and sands of village street; Without, the burning billows from brazen heavens rolled O'er thirty thousand soldiers in squalid prison-fold.

Merciless its arrows that pierced their reeling heads, Save where, like sheep, they huddled in crowded, noisome sheds; Sickening the odors that rose to ether's dome Till stoutest-hearted 'mong them sighed and wept for home.

Across the fatal "dead-line" he dared not pass in life, A little blue-coat laddie was borne from pain and strife; Upon his peaceful features the mystic sculptor—Death— Had chiseled lines of beauty ere it stole away his breath.

In rough-hewn morgue or "dead-house," outside the palisade, By stranger hands and hostile his youthful form was laid, Waiting for the moment when no funeral drum Should herald his approach to trench that served as tomb.

doorway of the "dead-house" another laddie stood Gazing on A close way of the "enemy" in sad and tender mood; A scion of the "chivalry" whose color was the gray, A transient guest of Anders'ville that sultry summer day.

Surmising what the impulse that war-ward made him roam, Guessing at his parentage, and where his northern home; Wond'ring if his mother still was waiting for her boy And dreaming of the hour when she'd greet him there with joy;

Picturing the loneliness that wore his life away In his dreary exile, no more an "enemy" Seemed the little blue-coat to the southron's son, But just a homesick laddie that grief had fought and won.

And as he gazed upon him with years (like his) so few, The tender shoot of "chivalry" brushed from his eyes the dew; No more was hated foeman this northern soldier lad, But boyish friend and comrade, the same as those he had.

All bitter thoughts and feelings, in that solemn hour, All whilom animosity, were shorn of vengeful power; Instead, the gentle teachings, learned at his mother's knee, Replaced his southern "honor" with truer chivalry.

And as they bore the "yankee" boy to dismal graveyard nigh, The "rebel" laddie followed—he scarce could tell you why— But youth to youth responded, and he walked behind the bier, He alone the mourner, and his alone the tear.

* * * * *

They sleep—the northern heroes—where the winds of God Blow their only requiems above the southern sod; They sleep—the southern heroes—where the pole-star's light Gilds their lonely pillows through the northern night.

Both alike they struggled through the long, hard war; Both alike they followed the flag they'd pledged them for; Both alike we'll laurel when the drum-beat rolls. And o'er them both we'll murmur, "God rest alike their souls."

MAY 37, 1913.

THE MICHIGAN FARMER

celebrated it, because her father's place stick his head out, then the other would would be vacant. follow. "This is the place we have been

It seemed as though the children had never before sung or spoken so well, and their actions. their pretty drills and poses were without a flaw, but the climax came when exclaimed Susie, "and we can watch them Lawyer Tomlinson rose to give his ad- build their home." dress. The veterans settled back, proud

specially provided for the day. At the close of the exercises the autos were waiting to take them and their flowers to the cemetery a mile away, to don't know how they want it built; bedecorate the graves of comrades there and to perform the last solemn ceremony the dear little things away." of the day. The guests supposed that everything was over when they left here, not frighten them," insisted Jack. but a drive in the country, timed to last planned and was enjoyed to the utmost. and go away to get their meals." On the return they were taken to the largest church in town, in whose base-

"I'm plumb flabbergasted with it all," Comrade Rice confided to his wife. "Noth- to find them. in' wouldn't surprise me now-not even to see angels."

and been ministered unto by them," Mrs. Rice answered softly.

"The buzz wagons again?" smiled Comrade Jones as they came out on the street after supper and found the autos still waiting.

The young drivers nodded, smiling, too. "Just one more spree before we all go home and go to bed."

The wives were taken to Mrs. Brandon's for a quiet evening together, and then the autos headed straight for the park. How old eyes did brighten when they saw what was prepared for them there-a splendid camp fire, with comfortable seats about it, a pile of wood at one side, and rugs and blankets in case any should feel the need of them in the spring evening's chill.

Then the band withdrew to the farthest corner of the park, where it softly played all the old patriotic airs that "the boys" loved, and acted as a successful decoy to lure and entertain any who chanced to be abroad, that the veterans might be left to themselves for a quiet, never-tobe-forgotten evening of exchanged confidences and reminiscences

At nine o'clock, when the lights of slowly returning autos began to gleam in the darkened streets, John Brandon rose to his feet and commanded gently, "Com-rades, uncover."

The order was provided in the searce of the

BY JULIA RAMSEY DAVIS

Susie and Jack loved to play in the big grove just back of their house, for there were so many interesting things there. Birds of many kinds flitted to and fro Its busy s smong the trees and sometimes little ploy; among the trees, and sometimes little squirrels ventured out where they could watch them.

One day they saw two squirrels come out and frisk upon the fence. They sat there several minutes chattering vigor-ously. "I wonder what they are saying,' Susie hat! that. And the latter words I say, Don't forget to use the handle on your hat!

"I wonder what they are saying,' Susie

"I wonder what they are saying, suse whispered to Jack. "You know squirrels can't talk!" Jack exclaimed. "Of course, they can talk, in squirrel language," Susie insisted, "or how could they ever make each other understand what they want? Let's be right still, and watch, and we will learn what they are saying."

looking for," they seemed to say, by

"Jack, they are going to live there!"

When the children went to the grove and expectant, as it really did mean a the next afternoon, the squirrels were great deal to them to have a speaker very busy putting their new home in busy putting their new home in order.

"Let's help them," said Jack. "Why, we can't," said Susie. "We sides if we went near it would frighten

"But there is a way we can help, and "We can put something to eat at the foot of until just about six o'clock, had been the tree so they won't have to stop work "That is a fine plan," Susie agreed.

So, every day the children brought peament the young people had a tempting nuts, bread, and other things they thought hot supper all ready for them. the squirrels would like, and left them the squirrels would like, and left them where the little workers would be sure

While the squirrels were building their dear little home in the wood-pecker's "Seems to me we've been seein' them old nest they became so accustomed to Susie and Jack that when they saw them coming they would hasten to the feeding. place to meet them. By and by, when the little baby squirrels came, they, too, became quite tame, and the whole squirrel family would eat from the children's hands.

When mother and father learned of Susie's and Jack's pets, they said: "This will prove to you children, that even the wild creatures of the forest appreciate, and may be made our friends, by continued kindness. We should never forget that the same good Father placed us all here-people and animals, and birds and He gave people dominion over fowls. His dumb things, and He wants us to be gentle and patient in our treatment of them.'

Little Willie-Say, pa, why do they stamp eagles on our coins? Pa-Probably as an emblem of their

swift flight, my son.

"Was he a good preacher?"

"No. His sermon was stupid enough to make you sleepy, but his voice was loud enough to keep you awake."

Willie-Did you have an excuse for

Earlie-No; but if father gives me the The order was promptly obeyed and licking I expect, I'll have a good excuse

THE HANDLE ON A HAT.

BY ALONZO RICE.

You are going out into the world, my boy; Its busy scenes your mind will soon em-

And I know advice is cheap, And I know, too, we shall reap Rich reward for each kind action on the way! Kindly promise me you will remember that



13--629

Boys, here is the best chance that ever was offered to get a good time-keeping 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 guarif you don't hammer tacks and with it or take it apart, in fact, if you will treat it as the friend it will prove to you, the manufacturer will keep it in repair for one year without charge. That's fair, isn't it?

And watch, and we will learn what they are saying." After awhile the little squirrels jumped from the fence, scampered up a tree, stopped where a blue-bird had built a nest in the early part of the season, and again began a spirited chattering. "Now I know what they are talking about," said Susie. "They are talking to build a home where they can live and to build a home where they can live and to build a home where they can live and to build a home where they can live and an sure that would just suit them." "The leieve it would make a good home for them." agreed Jack, "but as we can not speak squirrel language, the thing for us to do is to keep quiet and let them do their own choosing." After running around, and up and down many trees, at last the squirrels reached the hollow oak and again began to chat-ter. One would run into the hole and



HERE IS HOW YOU CET IT.

Go to three of your neighbors who are not subscribers to The Michigan Farmer, or whose time has run out, tell them that you will have sent to them the Michigan Farmer (the best farm paper in America), every week for a year (52 copies) for only 50 cents. Collect 50 cents from

the three of them and send us the \$1.50 you collect, together with the three names and addresses, and the watch will besent to you at once, post paid. Easiest thing you ever did. The Michigan Farmer used to be \$1.00 a year and now you only charge 50 cents, (less thanone cent a week), and by telling the neighbors that you are after a watch youwill likely get the first three you ask. Start right away, the sooner you start the sooner you have the watch ticking in your pocket and telling you at a glancethe hour, the minute, and the second of the day. Send your order to THE MICHIGAN FARMER, Detroit, Mich. the day. Send your order to





The Wife Who Works at Home is a fact that well fromed clothes stary clothed much longer, thus saving washing. Alcohol, gasoline and electric irons are Wage Earner.

American man women of his family. Those opposed to good as his. suffrage have assured us that the Amwoman runs everything anyway, so why should she want to vote? The American man is just naturally so easy and obliging that he can't help giving woman anyreason in the world why she would want to help make laws or decide who shall they did. make and enforce them.

630 - 14

in some cases, but looking over the field submission is a good idea for lordly husby and large, it strikes me that the Am- bands, but it doesn't tend to make happy erican man is generous with woman so wives. Equality is a better working motlong as it doesn't cost him anything. But to in this year of grace. if it is going to make him dig down in his pocket and divide up on the income, his generosity often stops with his loud talk.

How many of the women who read this column have half of the family income to handle as they choose? How many have one-fourth? How many have one-tenth? How many have a dollar a month to do with exactly as they please, and no explanations demanded afterwards? Now don't be bashful, speak right up in meeting. A few scattered voices lay claim to the dollar, but I'll wager even they have to account for 50 cents of it. If it was put to actual count I'll bet the numof women who could buy a fireless cooker, say, without arguing and explain-ing and cajoling and scolding for weeks before hand, could be counted on the fingers of my two hands. Yet our American men are generous to a fault, and give their wives even too much liberty.

The trouble with us as wives is that we have too long agreed to the idea that we are not wage-earners. The work the husband does is what brings in the mon-Therefore, he argues, he is entitled to say how it shall be spent, and we have quietly agreed to the proposition because we abhor any fuss about money.

Would not the work we do bring in money if we were doing it for someone It certainly would, and a good else? round sum, too. Suppose every housekeeper in Michigan were to be taken sick tomorrow and be forced to drop every duty. How long would it be before the husbands would have to admit that the wives were wage earners? Where could last a life time. they get another woman to come into their homes and do for money even a young stock, make the garden, tend the a mistake. fruit, do the mending and sewing and Can the busy farmer's wife who is they will not be so apt to "leak." darning and looking out for waste, that lone handed, with bushels of cherries to Huckleberries make the favorite willing to admit that wives and mothers would are wage earners?

partners. right to his share of the profits without to \$25. to worst.

'E have been hearing a great deal be spent. Her word should have equal lately about the chivalry of the force with the husband's and the chances towards the are equal that her judgment will be as

I always admired that woman in "The erican man considers his wife his com- Second Mrs. Jim." She was middle-aged panion and partner, and that he will see when she became "The Second Mrs. Jim" she has everything she needs and that and had become used to spending her own justice would give her. The Englishwom- money. "Jim" allowed the "butter and an may need suffrage, we are told, be- egg" money would run the house and cause over there man is boss. But here she could worry along with no spending at home, bless your sweet little heart, money, the same as the first "Mrs. Jim" had done. The new "Mrs. Jim," however, "allowed" she would just put the money from butter and eggs in the bank along with "Jim's" account and that they would thing she wants, so there isn't the least each have a check book and draw when they needed, as partners should. And

There would be more happy homes if There is a great deal of truth in all this other wives followed her example. Wifely DEBORAH.

LABOR SAVING DEVICES.

Would it pay him to haul the manure to the field, unload, and then scat- caring for the utensils of any gravity syster with a fork? This would require twice as much time and labor and the less work than caring for the whole milk. manure could not be spread over the field Sum it all up, the separator not only as evenly as the machine does the work. Why does not the farmer's wife follow his example and do her work with machinery? "Man works from sun to sun but woman's work is never done." There is more truth in this statement than we like to admit, and the one reason is that chance, and thus dismissed an efficient man does his work with machinery while woman performs her many tasks by hand. When we can find an implement that will do the work of a pair of hands in the fraction of the time, why not avail ourselves of this help?

If the farmer knew of a machine that of his work as the vacuum cleaner does to the Pacific, east and west, and from in the home, would he hesitate about the Gulf of Mexico to Canada, north and buying it?

Machinery help is now almost the only help to be had in the farm home, and his country landlady what kind of breakthese labor-saving devices for the home fast food she had, and received the re-cost only a fraction of what the farm ply, "Open-faced, cross-barred and kivmachinery cost. Besides, many of the ered, all apple." home implements are used daily while the farm machines only a short time dur- pie, but how many know that if rich, ing the year. The farmer replaces his sweet milk is used for moistening instead machinery every ten or twelve years of water, that the pie will be much bet-

man's, although it is man's work that meg. half of what the wife does for her board brings in the larger part of the income. week a woman might be found who would does his work go on just the same? It come in and get the meals and keep is then (and often only then), that he pies. things reasonably clean. But she cer- realizes that like the number ten, he is Go tainly would not care for the fowls and the one but that she is simply nought is

And a partner surely has a hand work. The cost ranges from \$6 ference.

it or demand it, or steal it if worse come ing is a necessity and ironing is said to hot oven. be a luxury, but every woman likes to Make imitation lemon pie by soaking radish root. Put this in a jar and when-The faithful wife certainly helps to earn have her tablecloth well ironed and the scant cup of fine bread crumbs in pint of ever you pick cucumbers stir the vinegar

all labor savers, and a good ironing board makes the work much easier than ironing on a table. A carpet sweeper pays

a big interest in the saving of time and labor. They really pay for themselves in the saving of brooms. We have used one dozen years and it still does as good work as when new.

The fireless cooker is another convenience that will help the housewife solve many problems, as well as save fuel, which is no small item. Many foods, such as cereals and meats, are really su-When perior cooked by this method. business or pleasure calls the housemothaway it is a great satisfaction to know the men and children can have a warm meal and no worry about the fire. The fireless cookers with the plates made of iron to be placed on the stove to heat will be found the most useful.

The refrigerator is a great help in preserving food; physicians claim they save much sickness. But few farm homes have ice. A cement trough with water pumped by the wind-pump is a common method of cooling. The centrifugal cream separator has done as much for the farm home as any one invention. The farmer and the cow are like the United States, one and inseparable. No farmer AN any progressive farmer get can get along without the cow and therealong without a manure spreader? fore he needs the separator. Taking care of the separator is no more work than tem. Caring for just the cream is much saves labor but gives superior results.

> Many women, even after purchasing labor-saving devices do not give them a fair trial. We know one woman who discarded her breadmixer after a couple of trials-she wouldn't give it a fair servant.-M. C. B.

A PI(E)OUS SUBJECT.

BY MARY CLARK.

It is claimed that the "pie belt' of the would accomplish so much in any branch United States extends from the Atlantic south. And we are all familiar with the yarn about the city boarder who asked

Every cook knows how to make apple while many of the home conveniences ter, especially if the apples are the Ben last a life time. Davis variety? Ground cloves also make Woman's work is just as important as better flavoring than cinnamon or nut-

Rhubarb pies are much improved by a half of what the wife does for her board of thes in the farmer's wife is disabled small slice of lemon, and rhubarb and clothes? By paying \$5.00 or \$6.00 a But when the farmer's wife is disabled small slice of lemon, and rhubarb and much a more a might be found who would does his work go on just the same? It seeded raisins, "half and half," make fine

Gooseberries require "two sugars to utes. one berry," and if a couple of tablespoon- til it forms candy. Test it from time to fuls of flour are mixed with the sugar, time by dropping a little in cold water.

Huckleberries make the favorite pie for darning and looking out for waste, that lone nanced, with bushels of chernes to interference make the fatter proved paper spread on blocht the structure of the spread on blocht the spread on blocht the structure of the spread on blocht the structure of the spread on blocht the spread on blocht the structure of the spread on blocht the spread would pay the wages of a good girl in her to make mince meat by chopping the black currants we buy. The dried cur-many homes. Yet how many are all un-ingredients when a small food grinder rants make pie that is "easy to take," do the work in a third of the if they are first cooked, and allowed to Parsnip Pie.-Boil the vegetable in two . time? There are very few farm homes cool, then well sweetened and a table- waters, after which remove the hard Now I do not wish to advance the equipped with a mangle, though about spoonful of flour added to each pie. If centers and mash the soft portion to a theory that every man should begin to three-fourths of an ordinary ironing can you want a substitute for pumpkin pie, pulp; beat up an egg with butter and pay his wife a weekly wage for doing the be run through a mangle. As much can just scrape and boil a few carrots, run sugar, the same as for making cake housework. Wives do not want to be be accomplished with this machine in 12 through a colander and make just like pastry, adding to it sufficient milk to paid, they want to be considered equal minutes as can be ironed in one hour by pumpkin pies. You can't tell the dif- make a custard consistency; line a plate

making a fuss about it. Few men could Sewing machine, washing machine and cream pie by mixing together, in one give the wife \$5.00 a week for her own wringer are three time-savers that no one crust, one small cup of sugar, half a cup and spread with meringue. Bake as any personal use, but she should be given tries to do without. Why not add the of flour, then rich sweet milk, to finish ordinary pie. her just share of the income, and given mangle to this list and thus save many filling crust three-quarters full. Grate it freely and gladly without having to ask tiresome tedious hours of work? Wash- nutmeg over top, and bake in medium egar, one cup of sugar, one cup of ground

the living, and she should be consulted mangle does this work better than by sweet milk, in which has been beaten two before putting them in. These will keep every time any large sum of money is to hand. We have all demonstrated the egg yolks. Sweeten, flavor with tea- a year without canning.-Mrs. S. L. H.

spoon of lemon extract. Bake in one crust, when baked, cover with whites of eggs beaten, and brown.

RECIPES.

Pieplant Pudding .- One cup and a half of rhubarb, three tablespoonfuls maple syrup, three tablespoons of melted butter, one egg, one cup of buttermilk, one teaspoon of baking soda, one cup of flour, sifted three times, one-quarter teaspoon salt, one cup granulated sugar, half a teaspoon of strawberry extract for flavoring, half cup of rolled oats. Bake in cake cups until nicely done. Serve with lemon sauce.

Maple Sugar Sandwiches .- Thoroughly mix one cup of maple syrup with one teaspoon of lemon juice. Drop in one and one-half cups of nut meats prepared by running shelled peanuts and blanched almonds through the meat grinder. Spread on slices of buttered bread.

Strawberry Tapioca.-Soak one cupful tapioca in cold water over night. In the morning, add two well beaten eggs, one cup of sugar, a bit of salt, pour in hot milk until the tapioca is covered. Flavor with vanilla. Bake until it is clear and soft, glazed a golden brown. When done, remove from the oven. Have a quart of strawberries ready when it is cool. Place a layer of fruit in the bottom of the salad dish, dress with sweetened whipped cream, then add a layer of the prepared tapioca, then a layer of fruit with whipped cream, and so on, until the tapioca has been used. Cover with a layer of the fresh strawberries rolled in sugar, and serve.-B. I. D.

Cream Puffs .- Put one pint of boiling water in a small saucepan, and half a pound of butter. When melted put in a pint and a half of flour. Stir in, being careful not to burn. When thoroughly mixed remove from the fire, cool and stir in five unbeaten eggs. Bake on buttered tins for 20 minutes, cut the sides and drop in the cream. For the cream beat one egg, add half a cupful of sugar and half a cupful of flour; boil one pint milk, add the egg, sugar and flour of with a small piece of butter. Stir until thick, flavor with extract of vanilla.

Pork Pie.-Cut two and a half pounds of the thick end of a loin of pork into three-inch slices. Place a layer at the bottom of a baking dish. Add a sprinkling from a handful of parsley and one onion chopped finely, and a dusting of pepper and salt, then a layer of pork, and seasoning, until the dish is full. Cover with a cupful of hot water and a spoonful or two of catsup. Place a tin cover over the dish and allow it to bake in the oven for at least an hour and a half. Baste occasionally, and when the meat becomes tender remove from the stove and put on a cover of puff paste. Return to the oven and bake until brown.

Cracker Jack .- One cup of molasses, two cups of sugar, one tablespoonful of butter, two tablespoonfuls of vinegar. Boil until it cracks in cold water, then take from the fire, add a half teaspoonful of soda, beat briskly and pour over popcorn and chopped peanuts.

A cough candy is made of slippery elm, flaxseed and sugar. Soak a half-pint of whole flaxseed in a cup of boiling water. In another cup put broken bits of slippery elm bark until it is full. Cover this also with half a pint of boiling water, and let it stand for two hours. Strain the flaxseed and slippery elm through a thin muslin cloth and save the liquid. Add a pound and a half of granulated sugar to it. Boil this syrup for ten min-Add juice of a lemon and boil un-The moment it is done pour it on white paper spread on biscuit tins and let it enge-shaped candies.

with rich dough, fill it almost with the If out of all other "pie timber," make parsnip pulp, and pour over it the custard. You may strip it or leave it plain

Cucumber Pickles .- One gallon of vinmustard, one cup of salt, and some horse-

MAY 31, 1913.

Salmon Croquettes.-Equal parts of canned salmon and Irish potatoes, mashed fine and seasoned with salt and a lit-Add one egg, well beaten, tle cayenne. make into balls, dip in egg and cracker crumbs and fry a delicate brown in very hot grease.-Mrs. J. J. O'C.

Waffles .- Rub one tablespoon of butter

One pound is enough for four pereon. states and nation have sent special comsons.

FASHIONS BY MAY MANTON.

Our large Fashion Book-containing 92 pages illustrating over 700 of the season's latest styles, and devoting several pages to embroidery designs, will be sent to any address on receipt of 10 cents.



No. 7754 Cutaway coat with vest, ³⁴ to 40 bust. With or without cuffs. No. 7758 Cutaway coat, ³⁴ to 42 bust. With or without vestee and tabs on back. No. 7761-Semi-Princesse dress for insees and small women, 16 and 18 years. With three-plece skirt, with long or el-ow sleeves, with or without tabs. No. 7746-Two-plece skirt with over-taped draped portion, 22 to 30 waist. With high or natural waist line. The adove patterns will be mailed to any address by the Fashion Department of the Michigan Farmer on receipt of 10 7754-Cutaway coat with vest, 34 No.

BOOK NOTICE.

"Co-operation in New England," by Prof. James Ford, Instructor in Social Ethics of Harvard University, with an introduction by Dr. Francis G. Peabody. In this volume, which is a number of the Russell Sage Foundation Publications, the Russell Sage Foundation Publications, the author attempts to review the progress of co-operation in the New England states under two general sub-heads: Co-opera-tive associations of working men and Co-operative associations of farmers, giving special attention to the Grange and gen-eral agricultural co-operation, co-opera-tive sale of produce, co-operation of dairy industries, together with an interpreta-tion and prospect. The volume contains 300 pages and will be sent postpaid upon receipt of "\$1:50. The book is published by the Survey Associates, Incorporated, New York City.

THE MICHIGAN FARMER

sumer. Another expressed it as his be-lief that it would be necessary for all the small growers to combine for marketing purposes in order that shipments might be made in carload lots. At the meeting to be held Saturday afternoon, May 31, the economic geography of the Grand Traverse region will be presented by means of lantern slides bearing typical farm and orchard scenes secured in this region. Grange. Our Motto—"The farmer is of more consequence than the farm, and should be first improved."

bot grease.—Mrs J. J. O'C.
Wartes.—Rub one tablespoon of butter is spoon of sait, mix thoroughly, separate three eggs, beat the yolks, add to them within the optication of an the optication of the three eggs, beat the yolks, add to the dist improved."
Dur Mote.—The farmer is of more is the more in the optication of the three eggs, beat the yolks, add to the dist improved."
Dur Mote.—The farmer is of more is the more is the separate three eggs, beat the yolks, add to the dist improved."
Dur Mote.—The farmer is of more is the more is the separate of the three eggs, beat the yolks, add to the dist improved."
Dur Mote.—The farmer is the sent of the three eggs, beat the yolks, add the three works and the three eggs. Pour the mixture in the sent of the three eggs. Pour the mixture in the three three eggs. The more is three three eggs. Pour the mixture in the three eggs and the three three eggs. Pour the mixture in the three eggs and the three three eggs. Pour the mixture in the three eggs and the three three eggs. The more is three three eggs. Pour the mixture in the three eggs and the three three eggs. Pour the mixture in the three eggs and the three three eggs. Pour the mixture in the three eggs. Pour the mixture in the three eggs. Pour the mixture in the three eggs. Pour the intern the three eggs. Pour three eggs. P

COMING EVENTS.

Pomona Meetings.

We say, the air is full of co-operative moisture, and, we ask, when will it pre-cipitate itself? This is a very pertinent and practical question and one that con-cerns us individually and collectively, for it devolves upon us to condense this vaporous co-operation into applied co-op-eration. We are the ones who must put

Farmers' Clubs

It certainly rests heavily upon us of 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. Directors-C. P. Johnson, Metamora; H. W. Chamberlain, White Lake; Wm. T. Hill, Carson City; Jerry Spaulding. Belding; R. J. Robb, Mason; J. F. Re-main, Filnt. Address all communications relative to the organization of new Clubs to Mrs. C. P. Johnson, Metamora, Mich. among us for this purpose. For instance, s let us tell abroad of the employes of a H.

sociation which built a neighborhood Associational Motto:

The skillful hand, with cultured mind, laundry, adjacent to their creamery and did away with "Blue Monday" and at-

in more than 200 households. Or, again, Associational Sentiment:

Smith's hay and take what he wants of ington Center Farmers' Club met in regit and Brown leaves some of it and sup- ular session May 8, at the home of Mr. lie powerful seeds of co-operative possi- called the meeting to order with a song. bilities. Their germs are in their spirit, Minutes were read and miscellaneous but spirit here is ultimated in works. And business found a very cordial invita-now we come to the gist of the whole tion to hold the annual picnic, in August, truly ready-that is, willing-to co-op- pleasant home of Mr. and Mrs. William erate we will co-operate; and to do so Brown. It was to be considered until truly means that everyone taking part next meeting. The response to roll call will desire that every other person in was, "Name a Blessing." Instrumental the enterprise have as square a deal as music by Miss Harp was substituted with himself. Everyone must begin in this a song by the Club. Mrs. F. Cook read movement over against his own thresh- a very good poem, which was enjoyed. hold. Every Grange, every Club and ev- The question, "How much harder work is ery other group must find its own point done by the housewife of the city than of contact with its own community's con- by the farmer's wife?" was led by Mrs. ditions and begin there to work together. Frank Himlen, who thought the farmer's Marketing of Fruit was given consid- is so much extra work to be done by the eration by Grand Traverse Grange at a city wife if she goes into society and her recent meeting, the consensus of opinion children attended school: that the farmbeing that more pains must be taken with the packing of fruit and that extra efforts must be, made to get better re-turns. One grower stated that he pro-poses the coming season to build up a business with private customers and that he expects to get more than 35 cents out of each dollar paid by the ultimate con-

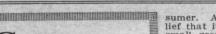
en park, as Mr. Cook never allows his chickens to run at large, having decided it was more profitable and convenient to have a park large enough so that they could have good range with plenty of fresh running water. After returning to the house the Club members were served with ice cream and cake.—Re-norter fresh runnin to the hous served with porter.

15-631

fresh running water. After returning to the house the Club members were served with ice cream and cake.—Re-porter. Discuss Agriculture and Education.— The last meeting of the Indianfield's Farmer's Club was held at the pleasant home of Mr. and Mrs. A. J. Patterson on May 15. This is one of the homes situ-ated on what is known as "Harmony Hill." There was a large attendance, notwithstanding the busy season and its pressing work. The program consisted of papers and music. The first topic, "Mich-garism, argently and the season and its pressing work. The program consisted of papers and music. The first topic, "Mich-garism, agriculture in Rural Schools." In part she said, where would it be taught if not in rural schools, where the boys, and girls, too, for that matter, live on farms. The soil is a wonderful thing in itself—to know what is lacking in the soil, and what should be used to increase the productiveness, and the value of seed tests, rotation of crops, etc. It has be-come necessary to teach our youths methods in getting larger and better re-suits from the soil. A paper read by Mrs. Castle Taggett, "Agriculture and the safety of farming as a business." She safety of farming as a business." She safety of farming was a business in which all interested should take an active part. The topic, "Agriculture the true source of National Prosperity." by Charles Pierce, was also very interesting and well read. He said: "In our own times the United States, after supplying the wants of its own harge population, has exported upwards of five and one half billions of dollars worth of agricultural products, within a period of ten years. Nearly 2,000,000 acres of land were ad-ded to the agricultural domain of the united States between 1880 and 1900. The annual production of the United States is absolutely without a parallel in the bistory of the world." We would like to give the whole of the several papers, but space will not permit. Refreshments were served at the close of the meeting by Mrs. R. W. Black. This Club wa

our lap-boards and chairs, singing books, etc.-Margaret Arnold, Sec. Want Club Song Book.-The Pittsford Farmers' Club met May 21 at the pleas-ant farm home of E. J. Haskins. The at-tendance was small, it being a very busy time in this section with farmers, but our meeting was instructive and enter-taining and enjoyed by all present. The question box is a feature of our Club that is thoroughly enjoyed and proves in-teresting and instructive. It draws each member into the discussions and I would suggest that all Clubs try the question box, if they have not already done so. The reports from Farmers' Clubs is the first thing I look for in the Michigan Farmer. We would be so glad to hear from any Club that has a good singing book for Club work, if they would write to the secretary personally, or answer through the Michigan Farmer. We find it very difficult to find anything fitted to Club work.-Satie L, Calkins, Sec.

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



Agricultural meetings discuss it. The

missions abroad to still further agitate

eration. We are the ones who must put some of these theories into practice-"you in your small corner and I in mine."

the overworked are relieved, we must

help relieve. If the 35-cent dollar becomes the rightfully divided dollar, we must help in its rightful division.

the Grange to seek out and make known

existing cases of co-operative effort and to encourage more of them. Very simple instances sometimes will serve as seed

certain co-operative creamery who rigged up a barrel churn and attached it to the creamery machinery in such a way as to do their laundering with the surplus steam and power. From this grew the

formation of a co-operative laundry as-

tendant backaches and "pick-up dinners"

my neighbor, Smith, keeps chickens and a horse and has a small field of alfalfa but no mowing machine. Smith's neigh-bor Brown has a machine but does not have a sufficient quantity of hay for his cows; so Smith allows Brown to cut

plies Smith with milk.

matter of co-operation.

In

Tf

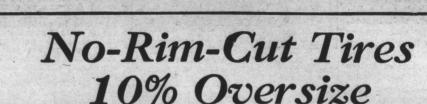
the subject.











Not a Petty Saving

Don't think that Goodyears won their place through any petty savings. They were once in bottom place. Today they outsell, by long odds, all other tires in the world.

They have leaped to leadership. The

Two Big Savings

The No-Rim-Cut tire-which we control-revolutionized conditions.

About one in four of all oldtype tires were wrecked by rimcut ruin. The No-Rim-Cut tire wiped out that loss completely.

Then the oversize we gave this tire added 10 per cent to the air capacity. And that, with the average car, adds 25 per cent to the tire mileage.

These two features alone vastly altered the cost of tire upkeep.

Other Savings

Then, year after year, we have spent fortunes on re-

search and experiment.

That department now costs us \$100,000 yearly. And there scores of our experts work all the time, seeking ways to better tires.

They test the tires

by metered mileage - test every new idea. Night and day, four tires at a time are being worn out in our factory.

It was thus we learned, in the course of years, how to give you Goodyear mileage.

The Meters Tell

Bear in mind that meters are now used on countless cars. Men know which tire is best.

The time is past when users depend on makers' claims.

They measure mileage, watch their tire upkeep. And they tell their results to others.



avalanche. Last year's sales by far exceeded our previous 12 years put together.

It took a vast, compelling reason to

Goodyear demand has come like an

bring this change about.

have gone out to meet these tests. And Goodyear sales have doubled over and over as men proved out) the tires.

Judge by This

Judge Goodyear tires by the final verdict of the legions of men who have used them

You can see the No-Rim-Cut feature-the oversize feature. But the main fact lies in their records.

Motor car makers have contracted for 890,680 Goodyears to be used on new cars this year. And our demand from users is twice as large as last year.

> The savings which did that are bound to win you when you make one test.

> Write for the Goodyear Tire Book -14th-year edition. It tells all known ways to economize on tires.

> > 题

(1083

A WIRE CO

THE GOODYEAR TIRE & RUBBER COMPANY, AKRON, OHIO Branches and Agencies in 103 Principal Cities More Service Stations Than Any Other Tire We Make All Kinds of Rubber Tires, Tire Accessories and Repair Outfits Main Canadian Office Toronto, Ont.-Canadian Factory, Bowmanville, Ont.



When writing advertisers please mention The Michigan Farmer,

MAY 31, 1913.