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FARM NOTES.

Cover Crops for Alfalfa.

Cover Crops for Alfalfa. I have read a great deal in your valu-able paper about alfalfa and with many others I would like a little advice. I sowed four acres on the first day of September, 1910. I sowed with it one bushel of rye per acre as a cover crop. I have a fair stand of alfalfa and good you advise me to cut the rye when it is coming in head or would it hurt the al-falfa to let it get ripe. Is green rye any good for hay? In the little experience I have had the stock will scarcely eat it before it is cut and I don't think it would make very good hay. If the rye was mowed down and left on the ground or seed has not been inoculated. The soil is quite high and runs from gravelly loam to sand. D. W. W.

sand. Sanilac Co. D. W. W.

In the writer's opinion it would be very much the better plan to cut this rye for hay when it is coming into head than to let it ripen a grain crop. This would be especially true if the alfalfa is a fairly good stand, and if the bacteria necessary to its success is present in the soil. This can be ascertained by digging up some of the thrifty looking plants after they have attained a little more growth and examining the roots for the alfalfa nodules. In case the nodules are developing, if the rye is cut before it begins to draw heavily on the soil for moisture, the alfalfa should come on and give at one cutting later in the season that would be of greater value than the crop of rye which might be harvested from the field if the rye were left to mature.

On the other hand, if the rye were left to mature, it would draw heavily on the soil moisture during the process of ripening, and the chances are that the stand of alfalfa would be less perfect than if the crop were mowed as suggested. Some of the best authorities on alfalfa culture in the country recommend the use of a grain crop as a nurse crop for the seeding of alfalfa, but all of them advise the cutting of the grain crop for hay, so as to give the alfalfa the best possible chance. Of course, it is true that under favorable conditions good seedings of alfalfa have been secured with grain crops, even with oats sown in the spring and harvested for a grain crop. But one cannot tell that the conditions will prove to be favorable, and if they should not the grain crop would undoubtedly prove a handicap for the alfalfa and the alfalfa plants will not attain the development nor make the stand that they would have done had they not been compelled to compete with the more vigorous plants for the moisture and plant food required to give them a good start. Nor can there any question that a good even stand of alfalfa will prove a much more profitable investment than a crop of rye, if both cannot be secured the same season. It may be possible, and it is far from unlikely, that when we once get alfalfa established on our farms and our soils well bacteria peculiar to and necessary for the success of the alfalfa crop we will be able to seed it in the same manner that we now seed clover and with equal prospects of success. But the getting of a seeding of clover in a grain crop is an uncertain proposition upon many if not most farms, especially if the conditions are at all unfavorable, and with our present knowledge of the crop and condition of our soils, alfalfa appears to be still more uncertain, so that it will pay in every case to give it the best possible chance in order that we may get it established on our farms.

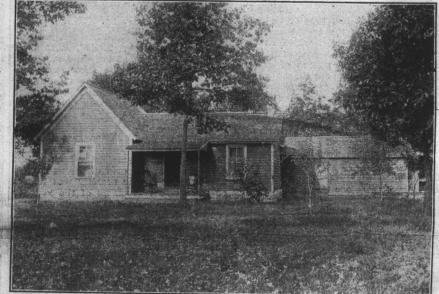
so far as the production of hay is con- after the rye is removed, this plan would cerned, until the soil becomes inoculated seem to afford the greatest advantage in a natural way by the spreading of the from any standpoint. inoculation from scattered plants, which are generally inoculated in most fields. This condition has an important bearing on the proposition, and an effort should be made to ascertain whether any considerable number of plants are com-

pay better to let the rye mature and cut will not occur to any considerable extent, above the surface between the rows. for a grain crop, as in this event the and if the alfalfa is inoculated to a de-

Subduing Quack Grass.

Please answer me through your paper, the best way to get rid of quack grass. I have a 10-acre lot that I am plowing for corn, that is nearly all covered with it. READER.

While it is a difficult proposition to mencing to develop the nodules or not. eradicate quack grass in a corn field it



A Modest but Attractive Farm Home, Residence of E. S. Shaner, of Muskegon Co.

In making examinations care should be can be done. But to insure success in taken in digging the plants and in re- this undertaking, the culture must be moving the dirt from the roots in order very thorough indeed. The greatest diffithat the nodules may not be stripped off culty to be encountered is to keep the they are present.

While the rye plant does not make the sufficient size to cultivate. best of hay and no stock likes it as well quire very thorough preparation of the as they do hay made from clover or the soil. Simply harrowing with a spring or other grasses, it has considerable feeding spike tooth harrow will not be sufficient. value writer's opinion it would be better to re- after deep plowing and the corn should

grass in subjection until the corn gets of This will reif cut at the right time. In the The ground should be thoroughly disked move the crop from the ground than to not be planted too early. If the grass is



Then frequent hand hoeing to keep it alfalfa seeding will not prove a success gree which will insure that it will thrive from developing in the hills will be necessary if the grass is to be eradicated. If the job is done thoroughly enough to prevent the grass from making any development above ground it must die, as leaves are just as necessary to the life of any plant as are roots.

While the eradication of quack grass from a corn field will entail considerable expense, as noted above, yet this expense should not all be charged to the corn crop. It will add to the value of the field not a little to have the grass killed out and will cheapen the cost of tilling future crops as well as increase their yield. There are, however, cheaper methods of killing out the grass. It can be more cheaply accomplished by summer fallowing, or by planting of a root crop that must be thinned and hoed anyhow, so that the expense of this item of labor may be reduced Then some such crops have a shorter growing season than the corn crop, and this expensive work will not have to be continued for so long a period. However, it should be remembered that quack grass or any other similar pest can be better exterminated during the best growing period of the season than at any other time, since, when the weather is dry the root stocks can lie dormant in the soil for a much longer time and still grow when favorable weather conditions come than would be possible under more favorable conditions. But he who would conquer these pests must be up and doing at all times, and do the work with great thoroughness, else the extra labor put forth in the effort will be a loss, since if any considerable amount of the grass is left living it will soon spread again and be as thick as ever.

Some Alfalfa Questions

Some Alfalfa Questions. I sowed a small piece of alfalfa some started but is doing well now. I cut it three times last year and got a good some of it with other hay and fed it to alfalfa as they picked it out and ate it if this is so? I did not feed enough to find out. I was told lately that it was to rich to be fed to cows more than once a day. Is this true? I would also like to ask if alfalfa roots are apt to fill up tile and stop their usefulness? I have a field that I would like to sow to alfalfa when I seed it down again. It is all sand but there are low places in it that need thing. Would it be practicable to tile the field and then sow it to alfalfa? I have that some who have fed al-

It is true that some who have fed alfalfa hay to horses have noted injurious This injury has results from its use. consisted of a stimulation of the action of the kidneys and the producing of a soft condition of the animal. It is, however, asserted by the best authorities on the subject that such results have been due to the injudicious feeding of the horses. rather than to the the hay, and experience seems to bear out that theory. It must be remembered that alfalfa hay is very rich in protein, nearly as rich as bran, and that horses are very fond of the hay, as noted by this inquirer. When they are fed all the al-falfa hay they will consume, especially if they are standing idle in the barn for all or a portion of the time, and when the grain ration is continued in the same quality and amount as when other hay is fed, the sudden and extreme change in made a crop worth cutting later in the insure the quick germination and rapid the balance of the ration causes the season, this old straw would have become growth of the corn plants, much will be stimulation of the kidneys above referred

Third Cutting of Alfalfa in 1910 on the Farm of Geo. C. Nichols, of Ottawa Co.

clip it and leave it on the ground, for the well subdued and the corn is not planted reason that if the alfalfa came on and until the weather is sufficiently warm to worthless rubbish and would be raked gained. Then the cultivation should be Of course, if you do not find that the up in the hay. Then, if the clipping were thorough and frequent. A broad shoveled getting rid of the excess of protein in the bacteria is present in the soil and that done too early there would be a consid- cultivator should be used, or better still, ration. It is also possible that if this its presence is evidenced by the forma- erable second growth of the rye. But if one fitted with thistle sweeps, so as to method of feeding were kept up tion of the nodules on the roots, it might cut when it is beginning to head this keep the grass from developing leaves considerable time, especially if the horses sults might follow which would impair the digestion and general health of the animal

But that with intelligent feeding alfalfa hay is a most healthful and economic forage for horses is proven by the experience of many. In his book, "Alfalfa in America," Joseph E. Wing gives his personal experience in the feeding of alfalfa hay to horses, which covers a period of nearly 25 years. He states that his horses get no other hay, and that since feeding alfalfa hay exclusively he has not had a single case of heaves and very little trouble with colic, that bane of horse owners. Apparently all that is needed to make alfalfa hay both a safe and eminently ity, and it was necessary to "change satisfactory roughage for horses is to feed it with a sparing hand, especially when the horses are idle, and to so adjust the grain ration that only the needed amount of protein will be provided in the uneven for good work. Now, with the combination. This should be done as a gasoline engine, power pump, 200-gallon matter of good economy as well as for tank, and tank filler, two men will put the health of the horses. Less grain will on from 1,000 to 1,200 gallons per day at be needed where alfalfa hay is fed than where mixed hay or timothy hay is used, It will be noted that we now use two men and with ordinary care in feeding it is comparatively certain from the testimony of Mr. Wing and others that any undesirable symptoms following its use will be of short duration, these symptoms being due more to the change in than the character of the feed. As a feed for colts and growing horses it is considered exceedingly valuable, since a greater growth in labor of from four to six men daily, can be secured than by the use of any other forage.

Of course, alfalfa hay should be well made and well cured for horses, just as clover hay should be well made and well cured for similar use. It should be on the side of over-ripeness rather than too green when cut, although too much woody fiber is, of course, undesirable, and it ought to be well cured and put into the barn as dry as possible. If so cured it will not become musty, and is much cleaner than clover hay on account of the absence of the minute hairs which cover the clover stems.

Cows require a narrower ration than horses, and there is little danger of feeding too much protein. In fact, with ordinary feeds, it is necessary to supply a The deficiency in this food element. cow's stomach capacity is also much greater than that of the horse, and being a ruminant, mastication is usually much more complete and the digestive juices are better mixed with the food than is the case with the horse, for which reason the cow may be fed a much larger proportion of bulky feed than the horse, with perfect safety and good economy. We believe there is no danger in overfeeding a cow on alfalfa hay. In fact, in the west cattle are carried over winter and sometimes well fattened with no other feed than alfalfa hay. Alfalfa hay and corn silage makes the best possible combination of feeds for cows, and will reduce the necessary feed bill for supplementary feeds very materially, and thus add to the profit derived from the cows.

While the alfalfa roots may fill up a tile that is improperly laid, so that sags occur in the line of tile from which the water does not run out in a wet time, the roots will not prove troublesome where the tile is in proper working order. There are thousands of acres in alfalfa on tile drained land where there has been little or no trouble from this cause.

There is no doubt it would be practical to drain the field mentioned and sow to alfalfa. It should be remembered, however, that alfalfa requires a well drained The permanent water level should soil. not under any circumstances be nearer than three to three and one-half feet from the surface, and if it is twice that it would be all the better. However, if these wet places are not too large and if the tile can be laid at a good depth, alfalfa would probably do fairly well and would be well worth a trial. Some alsike it on the low with

THE MICHIGAN FARMER.

spraying. together with the tank and pump, which many irrigation systems have been failis mounted on an ordinary wide-tired ures and we do not intend to install any farm wagon. A detachable tower with expensive system, but may try out the two platforms enables the operator to overhead system on a small scale, either reach the tops of quite high trees, and in connection with the village waterworks incidentally covers the engine and pump. The lower part of this frame is enclosed with light siding, thus protecting the en-For this purpose the engine saves gine. the time of four men, as I will explain. Formerly we needed three men to spray, one to pump and two to hold the rods. It was hard work for the pumper to keep up a pressure of 150 pounds with two lines of hose and nozzles of good capacwork" often with the men at the rods. Four hundred gallons of spray applied was a good day's work for three men, and the pressure was often too low and tank, and tank filler, two men will put a uniform pressure of 175 to 200 pounds. where we formerly used three, and that these two men will do from two to three times as much as the three men did with the hand pump and do it better and much more easily; which means that two men now do in one day what three men with a hand pump would require from two to three days to do, which means a saving viewed from one point, and from another a shortening of the spraying season from one-half to two-thirds, thus enabling one to do the work in less time or to handle more orchards. If the engine saves the time of four men daily, which at \$1.75 per day means \$7, at a cost of 15 cents for one and one-half gallons of gasoline and perhaps five cents for oil, this means, deducting interest on the investment or depreciation of the machine or repairs, a saving of \$6.80 per day during the spraying season, which with us is about five weeks of steady work, which would mean a saving of \$234.80 during the sea-

This amount would certainly pay son. for interest, depreciation, and repairs, or buy a new outfit every year.

Of course, there are times when an engine bothers somewhat, but when one gets used to them he can generally locate the trouble quickly and set it right. There are comparatively faw parts to an engine, so they are not complicated and hard to understand, as many suppose. When trouble arises it is generally some simple thing, such as run down cells, loose connections, inefficient gasoline supply, or a slight misadjustment of the sparker.

The next work that the engine was taught to do was to take the place of the buck saw and cross-cut at the wood pile. We are working up our old rail fences, and have a good many limbs from old apple trees that are being pruned or re-The rails and limbs up to about moved. eight inches are hauled to the yard and piled up until spare time when the buzz saw is brought out and staked down, the belt (an old discarded threshing belt) is put on, the engine on the spray wagon run out and drawn ahead until the belt is tight, when the wheels are blocked and we are ready to "saw wood." We have an 18-inch saw, but if getting another would get not less than 20 inches, possibly 24. It will pull a little harder but the added speed will help to overcome it. We first used the engine with the sixinch pulley which ran the sprayer, and speeded it up as much as possible, but the motion was not fast enough for the larger poles, so we put a 12-inch pulley on the opposite end of the shaft which works more satisfactorily. One can cut rails and small poles as rapidly as with a large outfit, and if careful in feeding the larger ones, poles as large as the saw will cut can be sawed.

Another use we have recently made of this engine is to run a ripping saw to rip boards for stripping up horse stalls. When we purchased the buzz saw we also bought a ripping table and small rip saw attachment at a slight additional cost. The ripping table is fastened to the saw frame with three bolts and it is ready for work. We could rip up a small load of lumber almost as quickly as it could be loaded to take to the mill. Another use to which we contemplate although I am not qualified to write fully on the subject, I wish to give our experi-ence with the gasoline engine as a source of power on the farm, although as yet we have not brought it into use in nearly as many ways as it can be used or as we intend to use it in time. The engine in question is an upright cylinder three horsepower gasoline en-

were maintained in idleness, serious re- gine, purchased primarily for use in runs through the place for irrigation on It is mounted upon a frame, a small scale for fruit. I am aware that which are within reach, or with the engine and pump. A small rotary pump placed on our spray wagon will fill a 200gallon tank in six minutes, and the engine would easily run one much larger than this.

> But what our readers wish to know is not the visionary "what we hope to do," but the real "what we have done," so I will leave the subject for those who have had a more extensive experience with gasoline engines as farm power. S B HARTMAN. Calhoun Co.

THE RETIRED FARMER .--- III.

A paradox is something true, but nevertheless unusual. A retired farmer who is retiring is somewhat of a paradox, but he has been found in one of the northern counties of this state. The drudgery of other business, such as the details, are as early as possible passed over to trustworthy men, and why not with farming? Chas. A. Dana said: "The indispensable man had not yet been born; when Moses died the Lord raised up Joshua and I believe this will always be the arrangement." The farmer who never gives nor never receives instructions, who is tenacious of his opinions and authority is not well suited to this method of withdrawal. Farmer No. 3, who retired in this manner began by schooling a son in the work of a live stock breeder, particularly of dairy cattle. The M. A. C. short course, attendance at breeders' meetings, the International stock show and farm papers were the courses in this school. This preparation was much as Carnegie directed the training of men like Schwab, Corey and Gayley, and was looked upon as an investment.

This son was permitted to indulge in sundry new fangled book notions of farming, which were passing strange if not scandalous, in the eyes of the neighbors. The retiring farmer secretly was fearful of these new movements of the younger man which, on the whole, were successful. He justified himself in a measure, by paying tribute to the young man's saying that he had SKIII, necessity of adapting conditions to modern ideas and had acted accordingly. In a neat, modern house, adequate without parsimony, he devoted himself to the pastimes of bees and fancy poultry. He also indulged himself in weather observations, recording the barometric pressure, temperature and rainfall. The relation between father and son was not unlike that of junior and senior partners, with the active management lodged in the hands of the junior member. During the periods of absence of the son the father acted as manager, a temporary pleasure but a service that he recognized was wearing, and as gladly relinquished when the son returned.

describing this method of retiring In my informant said he might have gone to the city or village, but the cost of living was higher. He would have been a sort of an exiled Crusoe, with no man Friday and amid many savages, wanting not him but his income. However, above all things, he did not break off from the business of life he had followed, but gave his attention to the occupation largely freed from petty cares. He thought at least he had the good sense to recognize that the plans of others should have opportunity to mature, and his attitude was to co-operate, rather than dictate. The cycle of life, he said. was represented by the vehicles used at different ages. All small boys must, and usually have, a little wagon; as young men it is a carriage, later a family surrey and finally the old man uses a one-horse wagon to truck around with. For the retiring MAY 20, 1911.



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clover might be seeded places to insure a stand of grass for some time, if the alfalfa killed out on these spots.

THE GASOLINE ENGINE AS A SOURCE OF FARM POWER.

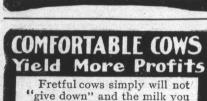
I note that "Farm Power and Transportation" is the special topic for May, and

farmer to be denied the one-horse wagon is just as much of a hardship as it is to the small boy to be denied a little red wagon, for it is the last vehicle in the procession of activities.

JAS. N. MCBRIDE. Shiawassee Co.

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THE MICHIGAN FARMER.

PURE-BRED DRAFTERS FOR THE

FARMER.

We can talk all we please but the big horse has come to stay. There is no doubt as to the fact that small animals are to a certain extent desirable on the smaller farms; but on the average place it takes the big horse to fill the bill. Of light horses it is an easy matter to find many which can be had at a fairly reasonable figure. When you come to heavy ones, it becomes a different proposition. The market and the farms are crying for more of them and they want them of better quality than ever before. They say that two-thirds of the stallions now will rise up and this two-thirds will have

for turn whichever way he could-selling corn or raising pork-lower prices confronted him.

With the facts in mind, it is very evident that in order to secure paying profits, the cost of production must be diminished. With corn at fifty cents per bushel it costs a farmer as much to raise the crop as when it is worth seventy-five cents a bushel. When pork hogs are selling at five dollars per hundred it requires as much effort to raise and feed his "crop of hogs" as when they are selling at ten dollars per hundred. With lower prices before him, which seems must be inevitable for a time, it seems that in order to secure reasonable profits, economical methods of feeding and managing, should be studied and adopted. Instead of saying that "hogs will pay well part of the time, and at other times one is sure to lose money by them," it seems in the country are not fit to stand in the as though it would be wiser to adopt stud. Some of these days the farmer means by which the cost of production can be reduced. It may be well to repeat



The Colts Produced and Work Secured from Such Mares as These Give Big Dividends. from? The east, the south and the west encourage those who may be on the anxare all calling for them and they are ious seat, hesitating as to whether they looking toward the central states for the had better drop the hog raising business, supply. Thus the breeder must have no or proceed in a more careful manner

fear for an oversupply and a consequent than has been necessary for the last drop in price for many years. The cost of raising the pure-bred colts

may be a little more because the average aside from that and the increased interest on the price invested in the mares there is no difference. If you fear that a pair of pure-bred mares will not do as much work as a pair of good geldings, it is possible to use three mares. Thus you are sure of three colts a year and the three mares will do more work than two geldings ever thought of doing. CLYDE A. WAUGH. Ohio.

RAISING THE PIGS FOR PROFIT.

It is reasonable to believe that most people who raise pigs on the farm, do it because there is profit in the business. pay as much profit over and above the paying returns, and there are other times

three years.

Some Things we Know.

First, we know that a reasonable numbreeder will give them better care, but ber of pigs can be raised and sold from the farm, and yield a good profit over production, when hogs sell on foot for tour and five dollars per hundred because there is a good deal of feed that would be wasted if not for them to consume and convert it into a marketable product. In competition with other kinds of stock kept on the farm, the pigs can eat the various kinds of feeds that are produced on the farm, and make as much profit from them as can be secured at prevailing prices from other kinds of stock. In the second place, we know that the pigs make quick returns, equaling the lambs, and beating the calves a long way.

We also know that pigs allowed to feed on grass and clover in summer make Taking all the years together, the pigs gains cheaper than when fed exclusively on grain feeds. In the absence of the cost of raising and fitting for market, as clover, rape makes a good substitute as any stock kept on the farm. There are a green feed. There are elements in the periods of good prices, and periods of green feed that helps to build up a good, low prices with all kinds of stock. Somestrong frame, and the exercise in gathtimes it is an easy matter to get good ering it, helps to develop muscle. By the outdoor exercise the vital organs are kept when the best managers lose money. in a more active and healthy condition. During the years 1909 and 1910 prices With good frames and large vital organs, have ranged high for all classes of hogs, we have good animals with which to opbeing the highest since the war of the erate and make good returns. With weak rebellion, and the years immediately fol- frames, and low vitality, the animals are lowing it. Under most conditions one not worth the effort to raise, for they could make good profits raising and sell- are not profitable meat producers. ing pigs during those years. During 1907 Another fact should be kept in mind; to 1910 the prices for corn were high and a variety of feeds will produce better remany farmers chose to sell corn to rais- sults, at less cost, than any one feed. ing and selling pigs when danger from When prices are high for pork, and corn disease confronted them, and the number is plentiful, there seems to be a great of hogs dropped off until in 1910 there temptation to feed corn and make it the were in the country over three million main reliance in growing pigs, as well hogs less than the normal number. The as fitting for the market. By using oats, high prices for pigs that prevailed during barley, pea meal and middlings with the 1909 and 1910 seemed to cause farmers corn meal, and feeding the mixture while to turn their course toward raising and pigs are eating grass, clover or rape, selling pigs. The heavy crop of corn of gains can be made much cheaper than by 1910 was sufficient to enable speculators corn alone. With the variety of feeds to see the opportunity to withdraw from the animal is developed more harmonithe market and let the pork prices go ously, bone, muscle, vital organs and adidown. The prices went down faster than pose membrane all being constructed at the supply increased. But with the farm- same time, makes the gains in weight er the downward result seemed inevitable, cheaper, and meat of better quality, than



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when the frame is neglected by using only fattening feeds And still another fact should be kept

in mind. The pigs make the gains cheaper when kept growing constantly than if allowed to progress slowly some of the time, and then try to hurry them along by more liberal feeding. When pigs are kept growing while young they make the gains cheaper than is possible to make them later in life. Light weight hogs sell at a higher price at all times of the year except during some portions of the packing season, than heavy hogs. Such the case with both the bacon and the block hogs, which gives a good outlet for the young hogs without the expense and trouble of making a special effort to fatten for market.

Finally the man who can produce cheap feeds that will make pigs grow into hogs, is the man who stands a good chance for making profits even if the prices are seemingly low. The profits are represented by the difference in the cost of producing and the selling price. The present conditions are such as should stimulate an effort to make gains in weights as cheaply as possible. With a good degree of intelligent management in raising feeds, feeding and marketing the pigs, there are still possibilities for making good profits from the pigs on the farm.

N. A. CLAPP. Wayne Co.

LIVE STOCK NOTES.

Live stock detects. L. J. Schwabacher, of Chicago, has re-ceived several thousand letters from farmers in answer to questions sent them, and these reports show approximately 20 per cent more hogs for marketing than a year ago. These answers come from all parts of the corn belt, including Illinois, Tennessee, Kentucky, Minnesota, Okla-homa, Wisconsin, Ohio, South Dakota, Indiana, Iowa, Nebraska, Kansas and Missouri. Recent Ilberal supplies of hogs in western markets are sufficient evidence of the large numbers in the country, and been fed lavishly. The luxuriant grass in most parts of the country furnishes choice pasturage. Dairy cows are furnishing liberal quan-tities of a rich milk, and the butter pro-duction has increased materially, the in-crease in the marketings of creamery butter having caused a recent decline in prices. Beepmen generally are liquidating

duction has included a recent decline in prices.
Sheepmen generally are liquidating their holdings, having no particular hope of seeing better times in the near future. The season has been an unprolitable one generally, especially to sheepmen who paid high prices at the start for feeders. A few Oklahoma stockmen have been marketing prime hogs at Fort Worth. Texas, and a recent consignment from that new state averaged 285 lbs. and topped the market. They were a cross of Berkshires and Poland-Chinas, and the owner said he considered them the best breed for market purposes. The owner's method is to see that his hogs are the best to be had, and the best of care is given them, rations consisting of corn and alfalfa. He has had numerous orders for brood sows from Texas farmers.
A Kansas farmer and stockman who marketed 30 head of Shorthorn and Hereford beef cattle at Chicago recently, reported great success in feeding ear corn and alfalfa hay to his cattle, with oil meal for finishing off. The owner went to Kansas in 1882 and bought land for \$10 and acree For the past 28 years he has fed cattle and hogs continuously, and has usually made it pay.
Large grazing areas in Texas have been greatly benefited by recent spring rains, and there is a luxuriant growth of grass, but unfortunately, there are no cattle in many sections. Cattle would be brought in from Mexico in considerable numbers, it is said, were it not for the requirements of the United States government. The government requires that a train load of cattle must be loaded three times and unloaded three times in coming from 100 miles west of the Rio Grande river to a point in Texas 100 miles east of it, in order that the stock may be well in spected.



THE MICHIGAN FARMER.

reply by main is requested, it becomes accompany the letter. Tongue Lolling.—I have a five-year-old horse that has acquired the habit of pro-truding tongue when bridled, caused, per-haps, by using too large a bit. Can this habit be overcome and if so, how? D. R. DeL., South Frankfort, Mich.—Most horses that protrude the tongue shift tongue on top of bit; now, in order to prevent this use a bit with spoon on it, or suspend bit to ridge of mouth by means of a nose piece on bridle and an-other very good plan is to use a crooked small bar bit, the crook shaped so as to leave room for tongue underneath; this sort of a bit is more comfortable than a straight bar. I have used these bits to good advantage in correcting this habit. Another very good plan is to oblige the horse to wear a bit while standing in stable when idle. Luxation of Stifle—Chronic Cough.—I have a nine-months-old colt that sprained stifle joint, allowing cap to slip out and back into place, making a cracking noise. Our local Vet. prescribed a blister, which I applied with poor results; now he ad-vises me to repeat the application. Would a good limiment not do as well? I also have a 14-year-old horse that is troubled with a cough and shows some symptoms of heaves. A. V. B., Deford, Mich.—Ap-ply equal parts tincture cantharides, tur-pentine, aqua ammonia and olive oil to stifle occasionally and this will answer fully as well as an active bister. Give 1 dr. powdered opium, 1 dr. powdered lobelia and 2 drs. muriate ammonia ata a cose in feed two or three times a day. Feed no clover, musty or dusty, badly cured fodder of any kind. Grass and roots are good food for a horse of this kind. Colt Has Peculiar Eyes.—I have a colt that foaled April 13. One of its eyes is

a dose in feed two or three times a day. Feed no clover, musty or dusty, badly cured folder of any kind. Grass and roots are good food for a horse of this kind. Colt Has Peculiar Eyes.—I have a colt that foaled April 13. One of its eyes is colored white and the other has a dark ring, and I have thought that its sight was not very good. C. C. B. Coldwater, Mich.—Very little can be done that will change the eyes in color; however, if they are sore apply a saturated solution of boric acid three times a day. Bone Abscess.—I have a four-year-old mare with a bunch on upper faw, which has been growing slowij for the past fix months and I would like to know how to treat it. Our local Vet, gave me a bilster to apply and thought the bunch would break, at which time he would scrape out abscess, then it would heal. T. J. P., Merle Beach, Mich.—Apply tincture iodine to bunch once a day; when it breaks use one part tincture iodine and eight parts water to inside of abscess and it will per-haps get all right. Founder.—I would like to know what founder is and how it affects a horse. I have an old mare that is foot sore and shows a great deal of soreness when traveling on soft footing she shows very little soreness or stiffness. Her chest seems to be falling in and I am told this is one of the symptoms of founder. C. P. S., Muskegon, Mich.—A foundered horse, while traveling, keeps fore feet in advance of body, usually the heel of fore feet strike the ground first, the sole of foot is inclined to drop, the wall of foot showing rings or ridges and the feet are usually warmer than hind ones. The musculas of chest usually archophy on ac-count of the position the horse takes while standing, as they usually endeavor to shift additional weight on hind legs, trelieving the fore quarters. By keeping the feet moist and cool also applying light bisters or stimulating liniments to cor-onets and shoeing with a rolling-motion shoe, a foundered horse is made more somfortable. Muscular Trembling.—For the past two months the muscles of shoul

to a point in Texas 100 miles east of it, in order that the stock may be well in spected. Buyers of milkers and springers at the Chicago stock yards are more particula as to their purchases than ever before, and fancy prices are paid without hesi-tation for a prime cow, while merely good cows are passed by in many instances. Good grass is making a larger demand for cows that are first-class milkers, while plain backward cows are going slowly at towprices, being sold frequently to killers. Daries generally are weeding out their inferior and old cows that are past their inferiors and it is difficult to meet the growing demand for first-class cows. The domand exists in the Chicago prices are paid for such, the offerings be-ing limited. Recently a team of prim-heavy workers sold for \$800. The Department of Agriculture at washington is doing what it can to en-mounts for the United tSates army, but main object being to obtain adequate \$500 horses for the army arises from the \$500 horses do horses would prov-or grate benefit to the entire country. The difficulty encountered in obtaining \$500 horses dor the ast decade, resulting horses dufing the last decade, resulting horses dufing the last decade, resulting the poor demand for that class of horses.



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PIGS FOR SAL I keep about 2400 cholera proof brood sows and am selling fine grade Yorkshire, Poland-China, Duroc and Tamworth Weaned Pigs at \$3 each. ALVAH BROWN'S PIG FARM, GRAND RAPIDS, , -- MICH. T. C. ALCOCK, Temperance, Live Stock Auctioneer. Write for terms and dates.

A RTHUR S. WILCOX, Jerome, Michigan, LIVE STOCK and REAL ESTATE Auctioneer. **BREEDERS' DIRECTORY.**

CATTLE.

ABERDEEN-ANGUS. ing of Trojan Ericas, Blackbirds and headed by Egerton W. a Trojan Erica, awn, sire of the Grand Champion steer International in Chicago, Dec., 1910. WOODCOTE STOCK FARM, Ionia, Mich.

TOP NOTCH HOLSTEINS Top Notch registered young Holstein Bulls com ning in themselves the blood of cows which now old and have in the past held World's Records for k and butter fat at fair prices. MCPHERSON FARMS CO., Howell, flich. Holstein Friesian Cattle BULL CALVES ary Mercedes, W. B. JONES, Oak Grove, Michigan ary Mercedes, W. B. JORES, On GUIT, ARAGE HOLSTEIN BULLS-1 two'years old, sire Admiral Prilly Walker No. 42562'adm Kekke Hengerveld De Kol No. 48300, 1 nine months old, sire Sir Korndyke Piertje Hengerveld No. 55292' dam Nors Inka Korndyke No. 109765. 1 3 months old, sire Johanna Concordia Champion No. 60575; dam Cora Burk De Kol No. 112642. The above are 3 of the best bulls ever offered for sale in the Mich. Farmer. L. E. Connell, Fayette, O. DE KOL BULL CALF-Choicest A. R. O. Breed ing and Individuality COLE BROTHERS, Ypsiland Farms, Ypsilanti, Mich

HOLSTEIN-FRIESIAN Cattle and Duroc Jersey swin O. Cows. E. R. CORNELL, Howell, Michigan. For Sale^{-A} reg. HOLSTEIN BULL, three years old. Good disposition. Canary Mercede, strain of breeding. Geo. Harrison, Clayton, Michs HOLSTEIN BULL CALVES For Sale-From Sire has 75% of the Blood of the sire of Grace Farme 2nd's Homestead. E. COLLIER., Fowlerville, Mich.

Holstein Bulls^CCows with all. 12 dam and 25-lb. g. dams and Hengerveld De Kol as g. sire. A prize for less than \$200. Also 3 more at bargain prices. LONG BEACH FARM, Augusta, Kalamazoo Co.. Mich. FOR SALE—Holstein Bull 2 years old \$125. Bull Calves 6 months to 1 year \$50 to \$100. Bred heifar \$150 to \$200. Oldest herd in Ind. Send for Photos and Pedigrees, W. C. Jackson. 715 Rex St. South Bend. Ind.

FOR SALE-Reg. St. Lambert Jerseys, Cows and Bulls from high producing stock. C. A. BRISTOL, Fenton, Michigan. HEREFORDS-Both sexes and all ages for sale. Also Poland-China hogs. ALLEN BROS, Paw Paw, Mich. FISHERTON FARM JERSEYS. This farm has American and Island stock with every animal bought for business at the pail. We will sell or exohange bull calves out of first rate cows for registered heifer calves or cows with satisfactory milk pail records. We also offer for sale three buils ready for service of splendid performance and promise. 1-Meadowsweet Melia Rioter No. 81624, dropped June 21, '06. Price \$200. Sired by Meridale Melia Rioter, dam Mauds Primrose of St. Lambert,

Rioter, dam Mauds Primrose of St. Lambert,
2-Fisherton Count Pogis No. 33966, sired by Ohampion
Hood Farm Pogis 9th, dam Mary of Vernon. Register of Merit. Dropped Aug. 3d, 1909. Price \$250.
-Fisherton Pogis No. 9397, sired by Ohampion Hood
Farm Pogis 9th, dam Tormet Third of Hood Farm.
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FISHERTON FARM, R. F. D. No. 3. Pontiae, Mich.

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

REGISTERED JERSEYS For Sale-Some combin ing the blood of St Louis and Chicago World's Fair Champions by HERMAN HARMS, Reese, Mich.

LILLIE FARMSTEAD JERSEYS. HERD BUILS { Vidas Signal St. L. No. 58197. Bull calves sired by these Foxhall, No. 82299. The second secon Register of Merit Jerseys. Offical yearly lot of young bulls from dams with official records young bulls from dams with official reco pounds and upwards of butter. T. F. MARSTON, Bay City, Michigan. Dairy Bred Shorthorns Only one bull left, 865 cash or good note. J. B. Hummel, Mason, Mich. DAIRY SHORTHORNS of the Best Milking Families. All mil weighed and records kept. A young bull 5 months old for sale. Dam of Sire has averaged 55 pounds per day for 4 mos. W. W. Knapp. R. D. 4, Watervilet, Mich. FOR SALE -Registered Shorthorn Catile, both seres no akin, JOHN SCHMIDT, R. No. 4, Reed City, Mich SHEEP. Hampshire Ewes bred for March & April registered stock; Choice in dividuals. C. D. WOODBURY, Lansing, Michigan Oxford-Down Sheep and Polled Durham J. A. DE GARMO, Muir, Mich. Oxford Down Sheep Good Yearling Field for sale. I. R. WATERBURY. Highland, Michigan. Reg. Rambouillets - I have 100 ewes, among them also 85 ewe and ram lambs. Live 24 miles east o Morrice on G. T. Road. Address J. Q. A. COOK HOGS. Durocs & Victorias Growthy Spring Boars & Gilts of choicest breeding from Prize Winners. M. T. STORY, R. 248. Lowell, Michigan. Berkshires Ten gilts bred to the wonderful Duk No better breeding. C. S. Bartlett, Pontiac, Mich BERKSHIRE Yearling sow bred for July farrow, also two fall Gilts and choice lot of March farrow, ed. (Pigs eith. sex.) A. A. Pattullo, Deckerville, Mich. FOR SALE-High quality fall Berk-June. Bred to the excellent young boar, Premier Bacon 4th. Rougemont Farms, Detroit, Michigan. A DAMS BROS., Litchfield, Mich., breeders of Imp. Cheste A White and Tanworth swine, service boars, sows bred o open, of either breed. Shorthorn Catelle, Buff Ryca, Buff Wyan dotte, W. Orpington, Ckls. all breeding stock leading winner Duroc Jerseys For Sale-A few sows bred for pigs both sex. M. A. BRAY, Okemos, Michigan. DUROC-JERSEYS Bred Gilts and spring pigs for sale. CAREY U. EDMONDS, Hastings, Michigan. DUROCS 5 Bred Sows, of high quality. 10 Excellent Boars ready for service, 75 Fall Pigs both sex. Write or come and see, J. C. BARNEY, COLDWATER. MICHIGAN. MPROVED OHESTERS-Young boars ready for service, orders taken for sows bred for spring far row. Also Helstoin Bull Calves of the best of bread ing. W. O. WILSON, Okemos, Mich. Both Phones O. I. C. Hogs all ages. Sows bred and more. H. H. JUMP, Munith, Michigan. 0.1. C's For Sale-Best quality, large growthy akin, some fine bred gilts, choice lot of fall pigs all ages. OTTO B. SCHULZE, Nashville, Michigan. **0. I. C. Swine** Bred gilts, males weighing from 150 to 250 lbs. Price and type right. Geo. P. Andrews, Dansville, Ingham Co., Mich 0. I. C.-March pigs with quality and best pedi grees. Order now and get first choice C. J. THOMPSON, Rockford, Michigan. 0. 1. C'S. Bred sows all sold. 93 choice Mar. & April in buyers name. Fred Nickel, R. No. 1, Monroe, Mich. **0. I. C. Choice Spring Pigs**, either sex. Pairs not get first choice. All pigs shipped on approval and Reg. free. HARRY T. CRANDELL, CASS CITY, MICH. O. I. C. SWINE Mescent of the Royal strain both males and females. Get my price before you buy. Will register free of charge in purchaser's name. A. J. GORDEN, R. No. 2, Dorr. Michigan. Butler's Famous Wonders Dig type Poland Chinas. Best by every test, 20 fall boars ready for service, weighing up to 250 lbs. at \$20 & \$25 each, they have got to go. Also Jersey bull calves richly bred. J. C. BUTLER, Portland, Mich. Bell Phone. Bargains -P. C. Boars ready for service. fall boar pigs. Prize winning African & Embden Geese. Z. KINNE, Three Oaks, Mich. Poland-Chinas Fall & Spring pigs of guality at low prices. B. M. WING & SON, Sheridan, Michigan. POLAND-CHINAS Fall pigs either sex. Young sows, spring farrow, Write L. W. Barnes & Son, Byron, Shiawassee Co., Mich. POLAND-CHINAS-Booking orders for spring pigs. WOOD & SONS, Saline, Michigan. I PAY THE EXPRESS on DUROC JERSEY Bred Sows, Boars and Pigs. JOHN H. BANGHART, Lansing, Michigan. POLAND-CHINAS Spring pigs choice fall boars. R. J. LANE, No. 7, Clare, Mich. Three Extra Good Fall P. C. Boars By Next. In Line. 32 spring male pigs ready to ship. I ship C. O. D. and furnish pedigree promptly. If you want good as the best, write me for prices, WM. WAFFLE, Coldwater, Michigan. B^{IG} TYPE POLAND CHINA BOARS, also fall and early spring pigs. B. P. Rock eggs \$1.0 per 15. ROBERT NEVE, Pierson, Michigan. LARGE TYPE P. C. Largest in Mich. Sept. & Oct. pigs weigh 250 to 300 lbs. Sired by two largest boars and from largest sows in State. Come and see and be convinced. W. E. Livingston, Parma, Mich. FOR SALE BRED YORKSHIRE PIGS. MURRAY-WATERMAN CO., ANN ARBOR, MICH. Lillie Farmstead Yorkshires Holywell Manor and Oak Lodge blood predominates. Large Herd. Three service boars. Pairs and trios. not akin. Boars ready for service. A fine lot of spring pigs. Gilts bred for August farrow. The best hog on earth. Satisfaction guaranteed. COLON C. LILLIE, Coopersville, Mich.

THE MICHIGAN FARMER.

(5) 557

THE DAIRY CONDUCTED BY COLON C. LILLIE.

COWS ON A FOURTEEN-ACRE FARM.

I have a farm of 14 acres and I wish to keep as many cows upon it as I can, since a m getting from 30 to 35 cents per lb. for my butter from private customers in petroit, 15 miles away. My trouble is, of course, to get sufficient pasture. I have Jersey cows. I can keep the cows through the winter but it is hard to bring them through the summer. Should I use phos-phate on my meadows and drag it in, or is it too late? Should I treat an old or-chard that has been pastured for the past six years, in the same manner? I have two acress of corn ground to break up this spring; could I sow or plant something on that ground that would aid me in sup-plementing pasture? Is it too late for peas and oats? I have four acress of sod know that I should do so. I am able to get good butter, for my exhibits took within the money the previous season, but that does not tell me how to get the fats, contains some sand. I have no silo. Oakland Co. Mrs. R. H.

The ordinary farmer would not think of keeping many cows on a 14-acre farm, and, in fact, you cannot keep many cows upon a farm of this size if you intend to pasture them in the summer time. The ordinary farmer figures on having quite a large acreage if he intends to keep a very large herd of cows. As R. H. says, can keep them through the winter well enough, but when it comes to pasture in the summer he meets a serious proposition. It takes so much land devoted to pasture to carry stock successfully through the summer. The reason, of course, is that the cattle waste about one-half of the feed grown in the pasture by tramping on it and soiling it Then again, if land is not other ways. broken up once in a while and re-seeded, the pasture is liable to get turf-bound the grass does not grow luxuriantly and and yields less and less each year until finally the pasture will not carry a very large head of stock. Then again, we ask a great deal of a pasture. Many farmers never think of fertilizing it. They neither top-dress it nor furnish plant food in any way, and yet the cattle are continually eating the grass which grows upon the land and thus removing the fertility which that grass takes out of the soil; then many of us expect the yield of pasture will keep up year after year. We are learning that this is impossible.

Rev. Deitrich, of Pennsylvania, practically solved the problem of keeping cows on a small area. He had only 15 acres of land and kept the cows in the barn and in a small yard the year around. None of it was devoted to pasture because he reasoned correctly at the beginning, that if he tried to furnish pasture he could not keep any amount of cows on his 15-acre farm; so he devoted the entire farm to the raising of forage crops or to furnish the roughage part of the ration and did not try to raise the grain. He purchased all the grain. He reasoned that he could purchase the grain cheaper than he could attempt to grow it on this small farm. In fact, the farm was not large enough for him to grow the entire ration for his cows. Of course, by purchasing all the grain that he fed to the animals, and carefully saving the manure and putting it back onto the soil, he rapidly increased the fertility of the soil and brought it up to a high state of crop producing power clover, rye, corn, and other forage crops. In many instances he grew two crops selling cream. each year. was cut, he plowed the ground and plantthe soil on his 15-acre farm so that the fat that it contains and he ought to pay last year he operated the farm he actu- for this butter-fat and nothing else. ally kept 17 head of milch cows and amount of stock kept on a 15-acre farm up to 34 head and yet that year he actually had hay to sell. Now, of course, culture of the United States. It simply shows us what can be done by intensive farming if it is only properly managed.

want to practice dairying on an intensive scale; if you want to keep all the cows turing. You can't do it. And we are dard of any kind ever adopted for cream.

learning that we can't afford very large pastures on larger farms. It is too expensive. We can raise much more for the cattle to eat on land that is kept under the plow than we can get from the pasture, as pasture is usually very expensive. As a matter of fact, I don't believe any man can afford pasture only on land that cannot be successfully tilled. On most every farm a portion of it is rough land, creek flats, or has gulleys, or something prevents its being profitably kept under the plow, and we can get something off from it by pasturing. But on good, level, tillable land, that can be made productive, one cannot afford, from a dollar standpoint, to have this land in pasture.

Second. By all means have a silo and raise the corn to fill it. Then I would follow the practice of Rev. Deitrich and not attempt to raise very much grain. You can get a portion of your farm into alfalfa, and raise corn and alfalfa and then buy a sufficient amount of grain to make a balanced ration out of the corn silage and the alfalfa hay. In this way you can keep quite a large number of cows on a 14-acre farm. It requires quite a lot of figuring, it requires some capital get started, but after you once get to

started you should have little difficulty. R. H. says that much of this land is elm flats and I apprehend from this that the land needs tile draining because such soil is usually wet, and if this is a fact, then the first thing to do is to properly tile drain this land because you cannot raise corn and alfalfa on elm flats, or any other kind of land. That is the first essential to success on a farm that needs draining, is thorough tiling.

Of course, for summer feeding there are one or two systems that a person can follow, either soiling, by raising soiling cutting them green, carting them crops, to the barn and feeding them to the cows, or having enough land in corn to make a sufficient amount of corn silage to feed every day in the year. This, to my mind, is the cheapest, the best, and the most practical way. Soiling requires a great deal of work. Soiling crops cannot always be relied upon, and there is a great deal more waste with a system of soiling than there is in feeding ensilage in the summer time.

Therefore, from my experience with the two systems I would say, build a silo, have a sufficient amount of corn silage to feed the year around and not attempt to produce soiling crops. However, this summer until you get a silo built, and until you get a system started on your farm it may be necessary to grow soiling crops and you can sow oats and peas and early corn and then late corn to have it come in succession and cut this and feed it to the cows, and get very much better results than you would by pasturing them. A mixture of grains and grasses can be sown that will furnish a substitute for a summer pasture, but it is not very satisfactory, one year with another. It is merely a makeshift for a good pasture.

STANDARD WEIGHT OF CREAM.

I would like to find out the standard weight of a gallon of cream. I have been selling cream by the gallon to two dif-ferent parties and one took eight pounds to the gallon and the one I am sending to now demands eight and one-half lbs. to the gallon. I don't feel like giving him any more than the first one I sent to. Menominee Co. F. E. F. E. Menominee Co.

There is no standard weight for a gallon of cream. Cream is not sold by weight. It is always sold by measure or from which he raised enormous crops of on a butter-fat basis, and that is the only real, thoroughly reliable, practical way of Sell the cream for so As soon as his clover hay much a pound of butter-fat which it contains, then you get a square deal youred the ensilage corn, and this would ma- self and you give the purchaser a square ture sufficiently so that he could put it in deal also. The milk that is in cream is the silo for winter feeding. Now, in not valuable compared with the cream. working this way he gradually built up The man buys the cream for the butter-

The weight of cream really depends young stock and horses to bring the total upon the butter-fat which it contains. The richer the cream is in butter-fat the less it will weigh per gallon because butter-fat is lighter than milk. Now there this sounds fishy, but it is a fact, and is no standard for the weight of a gallon you can find the records of this 'arm in of cream, but there is a standard for the the year book of the department of agri- per cent of butter-fat. The government standard under the food and drug act fixes 18 per cent butter-fat as a standard for table cream. Most of the cream sold Then my reply to R. H. would be some- in Michigan for table cream is supposed thing like this: If you are sure that you to be 20 per cent, but the dairy and food commissioner rules that 18 per cent of butter-fat would be the standard for that you possibly can on your 14-acre cream as that adopted by the government. farm, first of all, give up the idea of pas- This, so far as I know, is the only stan-



More than 15,000 users of inferior and worn-out cream separators of various makes traded them in last year on account of new DE LAVALS, and doubtless there are



many more owners of such machines who will be glad to know that the DE LAVAL Company still considers it good business policy to make liberal "trade" allowances for them. While the old machines are worthless the demonstrated differences help the sale of many new DE LAVAL machines.

Now that the flush of milk production is at hand, why not take advantage of this See the nearest DE opportunity? LAVAL agent, and he will tell you how much he can allow on your old machine

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.

Important to Users of **Old DE LAVAL Separators**

While DE LAVAL machines of ten or twenty years ago are much superior even to present day machines of other makes, during the past few years many improvements have been incorporated in the present DE LAVAL machines that make them simpler in construction, easier of operation and cleaning, and more effective in skimming.

Liberal trade allowance will be made by any DE LAVAL agent for your old DE LAVAL toward the purchase of an It will pay you to investigate. Any up-to-date machine. DE LAVAL agent will be glad to explain the new DE LAVAL improvements, or a DE LAVAL catalog illustrating and describing the latest styles and sizes will be sent upon request of nearest DE LAVAL office.



When Butter-Fat is Low

You need more than ever the service of the best Cream Separator made-The

United States Cream Separator

First, because economy is absolutely necessary, and you must get every bit of the cream from your milk. The U.S. Separator is the closest skimmer in the world. It holds the World's Record for close skimming won in a contest of fifty consecutive tests, extending over 30 days. with the milk of 10 different breeds of cows. This is no time for you to use a cream-loosing Separator.

Second, because high-grade cream and butter are never a drug on the market. The perfect skimming device of the United States Separator, which has been washed and made absolutely sanitary in 10 seconds, and is cleaned by centrifugal force, insures the highest quality product. Easy cleaning and thorough cleaning can be accomplished with the United States Separator, in a space of time impossible with other Separators.

These two points (only two of many) make the United States Separator the logical purchase under present conditions. If you have any other kind of Separator, which should be discarded, our local selling agent nearest you will make you a liberal exchange offer.

Write direct for catalog No. 111.

Vermont Farm Machine Co., Bellows Falls, Vt.

Please mention the Michigan Farmer when you are writing to advertisers and you will do us a favor.

DEDUCTIONS FROM MILK SOME TESTS MADE IN GERMANY.

work done by the cow-testing associations of this and other countries, the best evidence of which is the establishing of organizations in new territory, the growth of old ones and the constantly increasing interest in the results these associations old way," twice-a-week or once-a-week obtain.

been conducted to determine, among other things, the difference between cows freshened in spring, and those in fall as the seeming indifference of the buying their milk producing capacity, the relation of high yield and age to the per- However, it is certain that many farmers centage of butter-fat and the correlation of form and function.

freshening in the winter months gave a and cream less able to pay a higher price lusion: The delivery of milk to the larger flow of milk during the lactation and where these thinking farmers are in creamery, the cheese factory, or the staperiod then beginning than when fresh- the majority the plan is meeting with tion, has been and is still a bore to the ening in the spring. When cows produce success. Tests that show exactly the busy farmer. It either requires the a large flow of milk the tests indicated that a smaller percentage of the milk was butter-fat, but there was no appreciable change in the content of fat as cows increased in age. By carefully judging the there. It is certain that the future maranimals on points of conforamtion to the ket will pay the man who puts work, dairy type as it is known in Germany, care and intelligence into his product, a ius will not permit him to say "Nothing," and then comparing the conclusion of the judges with the result as shown by the milk sheet and the test for fat it was ket the trade itself will automatically concluded that a rather close relation bring about conditions for getting a betexisted between the "milk signs" of animals and their actual performance. In all there were 3,000 registered cows concerned in the inquiry and the milk production of these animals varied from 2,724 lbs. per year to 13,218 lbs., the average yield for the 16 years being 6,819 lbs., containing a content of butter-fat 3.64 per cent.

BUTTER AND BUTTER SUBSTITUTES.

The great majority of people eat butter and much prefer it to any of the hurried out to pasture to "pick their liv- little or less expense than the horse would substitutes which have been put upon ing." This they seem to enjoy—but what do it. What will follow we cannot tell the market. However, a great many is the result? While it lessens the but it seems that for the present there is people must use a substitute on account "chores" at the barn, it greatly increases a place open and ready upon our farms of the high prices which prevail during the work of the housewife. In very many for the automobile, and its coming is descertain months of the year.

Oleomargarine is the most common substitute for butter and millions of many sources comes complaint of trouble pounds of this product are consumed with churning, each year. The difference in cost of por- Not only is duction between eleomargarine and but- of the housewife severely taxed, but acter is so great that when butter is re- tual loss is sustained. tailed at forty cents per pound, oleomar- We feed the regular garine may be retailed at twenty cents per pound at as great a profit to the dealer.

The person who chooses to purchase the substitute should be allowed to do so and he should be required to pay only the price of the substitute. The difference in price between the genuine product feed I have seen churnings where cream and the substitute is so great that dealers are tempted to sell the latter for the former. Only by requiring that the consumers may differentiate between the two articles can honest traffic in the substitute be insured.

This was contemplated by congress when the present internal revenue tax of ten cents per pound was levied upon "artificially colored oleomargarine." Many people think that all oleomargarine is taxed ten cents per pound. This is not a fact. Oleomargarine which is "artificially colored" so that the consumer cannot distinguish it from butter is the only oleomargarine that is thus taxed. When it is put upon the market in its ratural color it is only taxed one-fourth of one cent per pound.

look like butter so that it may be fraudulently sold as butter that a burdensome green grass is what works the mischief, tax is imposed upon it. The imposition and takes off much of the profits of the of the tax is not to suppress the sale of farm dairy. A feed of hay and grain oleomargarine or to make it more expensive to the consumer, but to prevent lessons. fraud in its sale.

Minn. E. K. SLATER.

The agitation in these columns, at public meetings, in trade publications and elsewhere, of the system of paying for milk on the basis of the fat it contains has not been in vain for it is becoming more common to hear reports of success along this line each week-success in carrying out the scheme as well as in which results in a better grade of butter or cheese and thus enables the creameryto the dairyman that more than compensates him for the additional care required to get the better grade of cream or milk to the market.

THE MICHIGAN FARMER. favorable to the scheme. They know Dairying has not escaped attention, and that a better product can be secured, but we find the Babcock test, the milking the almost bitter competition that has machine, the cream separator, sanitary There is a growing appreciation of the grown up in many localities for the milk stables, economical feeds, great systems produced has rendered nugatory many attempts to harness the trade with any development of the uses of those products system of grading, since the men who until the business has grown in the past sell are encouraged by agents of one con- half century beyond the recognition of cern, or the other, to ship to them "any the devotees of fifty years ago.

come blinded to their own interests by have thought the matter through and arrived at the conclusion that carelessness It was found by the tests that cows on their parts renders the buyers of milk acid content of the milk are important careless producer, and with such a marwill welcome the day.

THE OLD, OLD STORY.

relying wholly on pasture feed, and from the march of civilization.

Not only is the strength and patience

We feed the regular ration of hay and ground feed (corn and oats) in the morning, then turn on pasture through the day, feeding hay and grain again when brought in at night. When this method is adopted we seldom have complaints of trouble in getting the butter to come: but where cows get nothing but pasture resisted all efforts to coax it into builter. It should be remembered that the grass

at this season of the year does not contain the nutriment of grass later in the summer, and is not only responsible for the trouble in churning, but is the direct cause of the loss of so many calves by seours.

A neighbor said to me last spring that they had lost three calves within a few days and had more they were fearful of losing-and all from scours. They said the calves were fed nothing but new milk, fresh from the cows and they could not understand what was the cause of the trouble; nor could they find anything to check it.

The new milk that she thought should f one cent per pound. have made nice calves, was, undoubtedly, It is only when the product is made to what made the dead ones. The too sudden change from dry feed to nothing but night and morning is cheaper than such

Do not let the cows go from the barn hungry in the morning, thereby compelling them to subsist on the watery grass; PAYMENT FOR MILK ON BASIS OF for just so long as this is done-just so of trouble will in churning and scours in calves.

> Oceana Co. J. M. W.

clung to our commercial interests until to give away, and are hardly worth keepit world, may be seen in agricultural circles, perplexing problems. It is easy to write obtaining a superior quality of product and while not revolutionizing conditions superficial truths and quote figures to in that field so rapidly as in other indus- show how many millions of dollars we are trial pursuits, is bringing about changes annually losing through feeding inferior man or the cheesemaker to pay a price that are making for a higher rural stan- cows. We may use the Babcock tester dard. We speak of the spirit of economy and the scales to discover the robbers, which has laid hold of the principles dis- but honest, brother dairymen, how are covered by science, observation and ex- you going to eliminate the medium cow, ploration and brought them into useful- I offer no solution that will fit all cases. It is clear that the manufacturers are ness in every branch of American life. If they are put on grass and milked dur-

of distribution of its products and a broad But whether we advance, or fall back in the as their convenience dictates. This has line of progress there are always prob-In Germany for 16 years past tests have nurtured a spirit of carelessness among lems to confront us-some part of the farmers and dairymen and they have be- business is less attractive to us than others and it is the constant effort of man to mend that which is most repugnant to parties as to the condition of the product. him; but in the improvement he often makes that which is most distasteful to him the most desirable, after which the remaining features come in for their share of attention. We make a single alspending of time the total of which for a factors in the plan as the patrons are single year is enormous, or the cutting confident that when cream is graded in down of the number of deliveries which second class it is proper for it to go brings to the market a poorer grade of milk or cream and consequently a shorter price. What is he to do? American genpremium over the price received by the so it brings to him the automobile. Now, while the horse is being harnessed and hitched to the wagon, this machine carries the cans to the station two miles ter product by making prosperous the away. It takes but a moment and the person who offers good milk and cream duty is such that there is never a want and bankrupting any other kind. The for someone to do it. Those who have sober thinking, conscientious dairyman given the automobile a chance at this work are enthusiastic, and contend that here as in other uses, it is both serviceable and economical. It is coming into the rural sections not so much as a lux-With the coming of spring and the ury as is the case in our towns and cities starting up of the fresh, green grass, all where men are buying them for pleasure, nature rejoices; and the farmer breathes but to serve an economical end in that a sigh of relief that the cold winter is it saves time in the accomplishment of past, with its feeding, and the cows are certain work, besides doing it with as instances feeding at the barn is stopped, tined to help the farmer to keep up with

> C. T. H. B. Wayne Co.

SUMMER DAIRY PROBLEMS.

The more I study the present dairy situation the more I am coming to believe that many dairy farmers are making a mistake by neglecting to maintain a maximum flow of milk during the summer months. Very few of us are in the business for pleasure. Profit is what we are after. Under present conditions may not the summer dairy yield fully as good returns as the winter? I am not in favor of a return to the old practice of summer dairying and allowing the cows to go dry during a large portion of the year when they should be more than paying for their food and care. However, I think that it will be admitted, other things being equal as far as cows and care are concerned, that as many pounds of milk can be produced from a herd on the summer as on the winter plan. Many dairy farmers and agricultural correspondents seem to harbor a belief that the cow that freshens during the fall will give more pounds of milk during the year than the cow that freshens during the spring. The fallacy of this belief has been proven by carefully conducted tests. The cow that freshens during the fall requires the best of grazing if she is to maintain a suitable flow of milk during the summer, the same as the cow that freshens in the winter or early spring requires plenty of nourishing food to maintain a suitable flow of milk during the late summer and autumn months. It is more in the system of management than in the time of freshening that determines the year's milk records. Both experience and observation have convinced me that we should maintain as nearly as is possible an even flow during the whole of the year.

It is not my purpose to make a plea for the medium, or low-producing, cow. She MORE ECONOMICAL PRODUCTION. deserves no eulogy. This class of cows get into every herd. We cannot recom-That same spirit which has persistently mend them to a buyer; they are too good has made them the marvel of the ing. This is one of the dairyman's most



ing the summer they will not run you in debt very fast. Put them in the winter dairy and feed them high-priced grain foods and they will eat up all the profit from an equal number of the best cows.

With the present prices of grain foods the herd will give as good profits during the summer as the present winter dairy. For many years I have advocated winter dairying, but during those years grain and by-product feeds were cheap. We cannot make cheap feeds, but we can change our methods. We can grow better farm feeds for our cows. One other point I wish to emphasize is that we can provide more suitable rations for a herd that gives milk during the summer than we can for cows that give most of their milk during the winter. Good pasture, proteinaceous forage crops and a very small quantity of grain foods make up a well proportioned ration for cows that are giving milk during the summer. Clover or mixed hay and corn ensilage will make up an excellent maintenance ration for winter. The great hindrance to profitable dairying is the high cost of grain feed and cows that do not pay for what they eat. We must improve in this line if we get the best returns from our cows. It should be possible each year to buy less grain food in proportion to the milk produced. Liberal, yet more economical, feeding, must be our aim. This will give all the profit there is in the business as far as feed is concerned. Less winter milk would mean higher prices for milk and lower prices for grain feeds. This is just what we need to make the business more profitable.

Good fences are an important factor in the summer management of the dairy herd. Good fences make friendly neigh-Poor fences and dilapidated gates bors. are a source of constant danger and annoyance. The farmer who keeps cows should have his pasture safely inclosed with good fences. Many valuable cows are lost or permanently injured each year through neglecting to mend a gate or repair a break in a fence as soon as discov-Not necessarily by the fence or ered. gate itself, perhaps she strayed into a field of clover or grain and became bloated; into an apple orchard and choked, or onto a railroad track and was killed by a train. Sometimes the whole herd breaks through the fence into a neighbor's field and ruins his growing crops. Such things are very unpleasant and expensive. Good fences are cheaper than valuable cows, damage suits and court costs, besides, every dollar spent for fence material and gates adds to the value of the farm.

When practicable, it is best to have the pastures sub-divided so that various animals are separated and to give the cows a change of pasture when one becomes closely grazed. In this way the cows obtain their food by walking over one-half the area. Dry cows and young animals should not be allowed to run with the milkers, as they are a source of annoyance at milking time and when driving the herd from the pasture to the stables. By fencing off a few acres of poor land and utilizing it for a night pasture for the cows it will become well fertilized and very productive in a few years and the owner will know just where to find his cows at milking time.

Good, tender and nutritious pasture grasses promote the heaviest milk flow of any ration and it seldom pays to feed supplemental grain foods while the cows have plenty of good pasture grass. When grasses begin to dry up and diminish in quantity supplemental foods should be quickly supplied. Various carefully conducted experiments show that unless dairy products are extremely high there is a loss in feeding grain to cows that have plenty of good pasture grasses.

The supply of water is an important factor in keeping up the milk yields and health of the dairy cows. Various diseases such as typhoid may be transmitted from cows to the human family through the use of water from impure or stagnant sources. Unless the pasture is well supplied with fresh running water or water from springs they should have water pumped from deep wells during the dry summer weather. Cows that have to drink impure water fall away in condition rapidly. Water is fully as important as food.

Cows should have shade during the heat of the day. Many argue that cows will give as much milk when confined in a pasture without shade, but humanity dictates that we should make our cows comfortable by protecting them from the direct heat of the sun during the summer weather.

New York. W. MILTON KELLY.

\$90,000 Daily

Now Spent for No-Rim-Cut Tires

Over 600,000 already sold-enough to equip 150,000 cars. All because they cut tire bills in two.

The sale of Goodyear tires has multiplied six times over in the past two years. Last year they jumped to \$8,500,000. They are now running double last year.

Sixty-four leading motor car mak-ers have contracted with us for these tires. To supply them and tire dealers we are running our factories twenty-four hours per day.

The reason lies in a patented tire --the No-Rim-Cut tire--10 per cent oversize. Men have found that this tire saves one-half on their tire bills. And the tire has become the sensation of motordom.

The No-Rim-Cut Tire

Cut tire as it fits any standard rim. When you adopt this tire you simply reverse the re-

movable rim flanges so they curve outward. They curve

inward with old-style tires.

This change can be made in

The rounded edge of the

flange then comes next to

ten seconds.

Here is the Goodyear No-Rim-

the tire, and rim-cutting is made impossible.

No Hooks on This Tire

The ordinary tire-the clincher tire—has hooks on the base to hook into the rim flange. That is how the tire is held on. See the next picture.

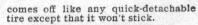
When you use this type the removable rim flanges are set to curve inward. Note how they dig in when the tire is deflated. That is why the common tire will rim-cut if you run it flat.

Ordinary Clincher Tire

The No-Rim-Cut tire has no hooks on the base. It is held to the rim by flat tape, made of 126 braided wires, vulcanized into the tire base. These make the tire base unstretchable.

The tire can't come off because the base can't stretch. Nothing can force it over the rim. But, when you unlock and remove the rim flange, the tire







This braided wire feature is con-trolled by our patents. And there is no other way known to make a safe tire which will stay on without hooks.

10% Oversize

These No-Rim-Cut tires, where the rim flanges flare outward, can be made 10 per cent over the rated size and still fit the rim. And we give you that over-size without extra cost.

That means 10 per cent more air-10 per cent greater carrying capacity. And that, with the average car, means 25 per cent more mileage per tire.

These two features together-No-Rim-Cut and oversize-will double the service one gets from a tire under average conditions. Yet Good-year No-Rim-Cut tires cost no

more than other standard tires.

Our latest Tire Book, based on twelve years spent in tire making, contains many facts which motorists should know. Please ask us to mail it to you.

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E. H. HOUGHTON Business Manage

Senate relating to the Canadian reciprocity pact, a joint delegation from the two states numbering twenty-five people, representative of the agricultural interests of the two states, arrived in Washington on the morning of Thursday, May 11, for which date the hearing had been The personnel of the Michigan deleset. gation was as follows: Ex-Governor Fred M. Warner; Dr. J. L. Snyder, Presi-

THE MICHIGAN FARMER.

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burn, of Idaho; LaFollette, of Wisconsin, and Bailey, of Texas, while most of the other members of the committee were manifestly not unfriendly to the great agricultural interest represented by the delegation and all gave close attention to the evidence submitted, indicating their full appreciation of the gravity and

Ic per lb.; wheat flour, 144,000 bbls., duty 25 per cent advalorem; butter, 1,000,000 lbs., duty 6c per lb. With these im-portations of farm products from Canada paying our present heavy duties, which average about 33 per cent advalorem; with their present great surplus and prospective development, what will be the imports when all duties are removed? The only answer is many hundred fold of increase.

<text><text><text><text><text><text><text><text> increase. It is said our consumption is approach-ing the total of production. True. But

National. Dissolution of the Standard Oil Com-many was ordered by the supreme court of the United States on Monday of this week. The legal battle which was brought to a close by the decision extend-ed over a period of many years in which the most eminent lawyers of the country contested every point of vantage and proved every clause of the statute touch-ing upon the case. The court holds that the company is a monopoly in restraint of trade, that the corporation must be dissolved within six months and that the law refers only to unreasonable restraint of trade, other combinations being not affected. The main features of the de-cision were agreed to by the judges unreasonable and reasonable restraint of that he holding was opposite to what the law had been interpreted for the past 15 years. The decision will not, therefore, affect trusts that are not unreasonably tend, it seems to be generally held, to the bacco trust would be handed down the bacco trust would be handed down the same time but it is likely to be pread the latter part of this month. President Taft and his cabinet will go view the entire trust situation and con-statute requiring the federal incorpora-tions. In a clash between a mob of strikers ness.

In a clash between a mob of strikers and the police of Grand Rapids, eleven persons were more or less seriously in-jured. The furniture men of the city have walked out and they were in an have walked out and they were in an attempt to burn one of the factories, it is charged, when the rioting occurred. It is announced that an arbitration pact with Japan, modeled after the re-cent agreement between this country and England is to be avenued.

pact with Japan, modeled after the re-cent agreement between this country and England, is to be arranged. The congressional committee for the District of Columbia reports a bill into congress for the restriction of the num-ber of saloons in the district to 100. The department of agriculture has cal-culated that the value of the products produced upon the farms of the country for the season of 1910 will aggregate \$8,-926,000,000 which is an increase over the preceding year of \$104,000,000. Texas now occupies first place as the principal producer, having wrested it from Illinois. The United States supreme court re-versed the decision of the lower court in the Bucks stove case, and thus holding Samuel Gompers, John Mitchell and Sec-(Continued on page 567). (Continued on page 567).



This Magazine Section forms a part of our paper twice a month. Eevry article is written especially for it, and does not appear elsewhere

WE FORGET THE BRA

AT GETTYSBURG.

BY MRS. M. B. RANDOLPH.

Toward the field of Gettysburg A soldier gray and wan One morn in May took up his way From shores of Michigan. White apple blossoms like falling stars Had strewn the fruited beach,

And petals pink as tropic shells Had drifted from the peach.

Toward the field of Gettysburg, With locks of silver shine, At night's descent another went From shores of Caroline.

Magnolias pale as evening stars Lit up the fragrant gloom, And pink as shells from Indian seas Was oleander's bloom.

Upon the field of Gettysburg They met—the blue and gray; Many the scene that lay between This and that other day

When here they met as youthful foes Each fighting 'neath his sign, The soldier boy of Michigan,

The one from old Ca'line.

They walked along the sweeping ridge, They scanned the rounded hill Where both had fought and madly sought His brother's blood to spill;

Then toward the city of the dead Each took his silent way, Where curfew seems forever rung

O'er ashes cold and gray.

No portal oped; no footstep crossed The door stones low and still; No sound was heard save doleful word Of spectral whippoorwill;

The moonbeam's silver pencil traced The weatherbeaten name, While down the aisles with whispers

strange The ghostly night winds came.

"Stranger, 'tis a gruesome thing-

This army of the dead-My blood runs cold with mem'ries old" At last the Northman said; "Yes, friend," the Southron now replies,

('Twas here they first had spoke), "For each still heart that 'neath us lies Another heart was broke.

"Each deadly ball that did its work, Each sabre in the fray, In that wild strife pierced gentler life

In some far home away; Brave deeds were those for Northern

knight Or Southern chivalry!

The Silent Camps of Blue

By T. C. Harbaugh.

'Neath the beauty of the blossoms, 'neath the cedars and the pines Sleeps a mighty blue-clad army that once formed the battle lines, Far the smoke of war has drifted and the snowy wings of Peace Hover Columbia's heroes who from strife have found release, Silent is the trilling bugle and the war-drum is at rest And the violets are blooming over many a dauntless breast, Fame keeps watch beside the river under skies of azure hue, And Glory stands, a sentry, in the silent camps of blue.

The ring-dove wooes his mate today upon the battled hill, And through a field of daisies sings the once ensanguined rill, The lily nods unto the rose, deep in the haunted wood, And the thrush is sweetly calling where the Nation's legions stood The spider spins her subtle thrall across the cannon's mouth And the oriole is singing on the war fields of the South, And Memory touches with her wand, so beautiful and true, The tender grass that grows among the silent camps of blue.

They rest upon the mountain and they sleep beside the sea, Their bivouac is found where stood the tents of Grant and Lee, For them no midnight challenge and for them no deadly raid, No rude alarms of battle and no bayonet and blade, Above them floats "Old Glory" in the shadow and the shine, As oft it floated proudly o'er the lurid battle line, Its stars agleam with beauty and its stripes of crimson hue Keep Fame's eternal vigils in the silent camps of blue.

Behind the muffled drums today a few old comrades march To scatter flowers above the brave beneath the azure arch, With fal'tring step adown the street 'neath the drooping flags they go-The men who in life's golden prime met oft the stubborn foe. They march adown the narrow aisles where lift the guarding pines, A remnant of the mighty host that made the battle lines; They're waiting in the gloaming, as their life path they pursue, For the Grand Commander's summons to the silent camps of blue.

Forever may the lilies bloom in beauty and in love, Where sleep the Nation's gallants with the dewy sod above, Forever may the flag they saved float where they gently rest With Nature's loveliest treasures scattered o'er each hero breast, For them Columbia's rivers thru the summers long shall sing, The woods that clothe their battlefields with praises long shall ring, And once a year a grateful land with willing hands will strew, The roses and the lilies in the silent camps of blue.

Wipe all that guilt away.'

> No need to question whence each came Nor cause that claimed his steel; The place of birth tho' South or North Their accents all reveal; They clasp their hands above the dead Their tears like jewels shine-The mingled tears of Michigan And those of old Ca'line.

HEROES OF BLUE AND GRAY.

BY RUTH RAYMOND. Sad are our martial strains, Dirges for those who sleep, Under the southern rains Truce of the years they keep; Under the northern snows Silent and still are they, Comrades in death's repose, Heroes of Blue and Gray.

Here is a sunken mound. There is a costly urn, Graves of our boys are found Every which way we turn. Over them lightly spread Fragrant bloom of the May; They are the Nation's dead, Heroes of Blue and Gray.

IN MEMORIAM.

BY Z. I. DAVIS. A common sorrow binds all hearts

In unison today. The flag that leads the veterans,

Upheld by blue and gray,

Floats at half mast; with muffled drums And silent martial tread

They enter, solemnly and sad, The city of the dead.

With them the sympathetic heart Of nature kindly grieves,

With theirs, her quick warm tears flow fast

From overhanging leaves. Scarce heeded, sings the oriole

Along the flower-strewn way,

For broken hearts throb with sharp pain On this Memorial day. Ah, they are going one by one,

The ranks are thinning fast,

Soon will the taps call out for those Whose feet have hither passed.

Once more a bright and unscarred flag Is planted o'er each grave,

Where hands are folded silently That helped our land to save.

We leave them there at rest in peace The silver stars their crown, God help us to take the burden up That their brave hands lay down.

DECORATION DAY-Suggested by a Woman. BY EVA RYMAN-GAILLARD.

most universally. the honor 1 When passing through the south, Mrs. Kimball had seen women strewing flowers over graves of Confederate soldiers, even before the end of the war, and the ceremonies became so impressive, and fitting, that she went to General Logan, who was then commander-in-chief of our army, and suggested that a day be set apart, on which we should in similar way show loving remembrance of our own Union and Tennessee the second Friday in May. soldiers.

In accordance with the suggestion Genday to be observed with appropriate cerehad given their lives for the Union. May soldiers are sleeping, irrespective of the years ago, Mrs. S. C. Forbes, of Califor- fail in its observance.

founding Decoration Day, but the last Union soldiers were discharged and, suggestion was made to him by Mrs. by an odd coincidence, it was the date strictly speaking to the Grand Army of cutter was placed at her disposal and Henry Kimball, of West Fhiladelphia. on which the graves of the Confederate the Republic, each post being left free to the custom of "Decorating the Waters" soldiers had been most generally decorat- decide on the order of exercises best in memory of our sailor soldiers was ined, though no law or "act" governed the adapted to their locality, and to ask the augurated and quickly taken up in other time.

New Jersev claims the honor of making the first effort to have Decoration Day in the spirit of the deed, and with the 30, 1868. eral Logan appointed May 30, 1868, as a passing years there has grown, largely, in both north and south, the beautiful

O Gen. John A. Logan is given, al- 30 was chosen in commemoration of the color of the uniform they wore during the nia, suggested the idea of honoring those

co-operation of the public. The G. A. R. places. has always been ably seconded by the Women's Relief Corps and the Ladies of more "soldiers' graves" awaiting made a legal holiday, but, even yet, some the G. A. R., as well as by all patriotic flags and flowers, while the ranks of livof the states observe different days- people, and during later years the Sons ing veterans show correspondingly fewer North and South Carolina taking May 10; and Daughters of Veterans are coming numbers and are pathetically weaker, Alabama, Florida, and Georgia, April 26, to the fore and filling the places made vacant by the passing on of those who The date, however, makes no difference so patriotically began the work on May his sleeping brothers-in-arms but a few

Under the original "order" only the soldiers who rested in graves on land monies to show fitting honor to those who custom of decorating all graves wherein received the visible tribute, but, a few

who fough General Logan's order was issued, flowers broadcast over them. A revenue

Each succeeding Decoration Day finds our physically. The youngest "veteran" now living can hope to strew flowers above times more, and the fact makes it eminently fitting that the history of the day be told, and retold, that the coming generations may not lose its significance, nor

562 (10) THE MICHIGAN FARMER. ONCE A MORMON. By IRMA B. MATTHEWS.

Chapter XIV .- (Concluded).

"I would never obey," repeated Robert. "Well, if you did not, what then? Even you would not be safe here. No, Robert, do not urge me; I cannot do it."

"But what will you do?" anxiously. "You cannot live on here alone forever if your father will not provide for you." "I do not know. I cannot see my way,

but," and she lifted her face toward the starlit skies, "somewhere God lives and knows and He will care for me I am sure. I can think of nothing now but my mother; after she is gone I do not know. Life will hold but little for me I fear."

How Robert Stuart longed to comfort her, but he could not, and he saw it was best to say nothing more now.

"I am selfish in keeping you from her now," he said. "I will come every night, Elinor, whether I see you or not, and if you need me come to this place any night and I will join you. Do not refuse to let me help you, will you?"

"No, Robert, I will not, and I thank you. It will give me courage to feel that you are sometimes near, for, oh, I am so afraid," her voice sank to a whisper, "so afraid of that man." Then she left him and went back to her vigil while Myra tried to take some needed rest.

Robert kept his promise, although Elinor did not see him often for her mother was growing weaker and she did not leave the house very often, but she often found evidence of his visit in the shape of fresh fish or a bit of game left on the doorstep; sometimes also it was some for the sick woman that he dainty thought she might relish, and often there was a note breathing deeply of sympathy. The food was very welcome to the women, for often there was but little in the house to eat and they were too weary to prepare it, but what Robert brought was always ready to be cooked.

They had another friend, too, although it was many days before they knew who it was, but they found other things on the step, things that no one but a woman would think of bringing-loaves of bread fresh baked, and now and then a dainty custard, a pie, cake and even meat nicely cooked.

But one morning Elinor had gone early to the door and she was confronted with the wistful face of her father's young wife with a dish in her hands.

"You," gasped Elinor; "has it been you all the time?"

"Yes," answered the other humbly, "but please do not refuse my help now that you know. Oh, I feel so sorry for you. I lost my own mother but a short time ago," and tears came at the thought, "and yet," she looked up piteously, cannot be sorry, either. I am glad she did not know the position I occupy today. My mother was never a good Mormon."

Elinor felt her heart warm toward the girl-she was little more than a child in reality-forced into her present position by the king and her father, not through any choice of her own. "We will not refuse your help," said

Elinor softly, "and I thank you, oh, so much. It has indeed been a godsend to us sometimes, and I do not know what we would have done without it. Does my father know?"

He did not at first, but he grumbled because I used so much food and then I told him."

"And did he not object?"

"Yes, but I told him if I might not do this for you, then I would not cook for him, and he came home one day and found nothing in the house to eat and then he gave in."

Elinor smiled faintly. She knew how and not because it was a divine command house just then the conversation was LEARN AUCTIONEERING At the Worlds School well her father liked good victuals. "Now as he told him at the time. I must run back," said the other. "I am "Father, you know that dropped. and Become Independent. Catalogue and com plete information FREE. Write for it today JONES NAT'L SCHOOL OF AUCTIONEERING, 2356 Washing "Father, you know that Clara was Chapter XVI. glad, after all, that you know and I wish very kind to us during mother's illness, ton Blv'd, Chicago, Ill. Summer term opens July 31 Elinor did not see Robert for some 1 could help you more." and I do not think she is to blame for 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 lan-guage. For information apply to Recruiting Officer, 21 Griswold Street, Detroit, Michigan: Heavenrich Block, Saginaw, Michigan: Corner 1st & Saginaw Streets. Flint, Michigan: 1D E. Main St., Jackson, Michigan: corner Huron Avenue & Quay Street, Port Huron, Mich. days. The fact of the matter was, al-Elinor turned into the house with a what happened. She is only a girl and though he had been so patient with her, sigh. What a lovable girl she really was she is no wife, you know." he was growing indignant at what he Her father looked startled. under other circumstances, what and, considered was her want of trust in him. "I want to repay her, and, father, the friends they might have been. It was a request I wish to make is that you make He thought that she ought to underdreadful muddle, this world, anyhow. stand that the thing she so abhorred was She wished she might repay the young her your wife." as repulsive to him as to her, and he had Let Me Start You in Business I will furnish the advertising, matter and the plans, I want one sincere, carnest man in every town and township, Farmers, Mechanics, Builders, Small business man, anyon, and the plans, the source dition. Address Commercial Democracy, Dept 30, Etyria, Oht. "You ask this?" girl's kindness and, in a way, this wish "Yes, Myra and I both ask it, in hu- confidence in himself. Robert had underwas granted weeks afterward, although estimated the power of the king; that Elinor would never have thought she manity's name." For some time he was silent; then at was the trouble, and Elinor knew it. It would have repaid it in the way she did length he spoke. "I said if it was in my was not long before he also realized what had she known it then. power it should be granted, and you have it really meant. YOUNG VETERI MEN WANTED to LEARN VETERINARY profession. Catalogue free. GRAND RAPIDS VETERINARY COLLEGE, Dep. 11 Grand Rapids, Mich. Strang sent for him one day and in my promise, but I had never thought of Chapter XV. Mrs. Brandon lingered along weeks and anything like this." Then, as the real wonder he obeyed the summons. What, then one morning the end came very nobility of the action dawned upon him he asked himself again and again, could SECURED OR FEE RETURNED Free Patent Book, Selling Guide and List of Buyers and Manufacturers o She had just eaten a little he added brokenly: "I have wronged you the king possibly want of him? He was suddenly. breakfast and turned to say something and my dead wife beyond repair, but, oh, a hard working youth and had paid not

to Myra, who was sitting by her bed, when she gave a sudden gasp and was gone. Myra screamed and Elinor ran to her, but their mother was beyond all trouble and care.

They soon found they had many friends, both among the Mormons and the Gentiles, who came to see them and offer their services but the two women, clinging together, heeded not their coming or For them the light of day had going. been blotted out.

where the sound of the waves could be heard singing a soothing lullaby and the trees cast a shade over the low mound. Elinor planted a white rose bush at the head. Mr. Brandon seemed to really mourn for his wife. Death had leveled his pride and he even begged his daugh-ters to come back to their home. Elinor refused. "No, I cannot go again into the home that was forever closed against my mother, and I could not bear the sight of the rooms that were once bright with her loving presence. We will stay here together, Myra and I, until we decide what it is best for us to do."

The young wife, however, came openly to their home now and they did not turn her away. There was a sadness about her face of late that won the sympathy. and compassion of both women and they were very kind to her. Robert spoke to Elinor once about it and she answered, "You think it strange I can be kind to her when she drove us all from our home, but believe me she was but the innocent cause of it all. Clara is no more to blame for her position than Myra is for hers. It is all so terrible, and she is so young, I feel very sorry for her."

"I have heard she wishes your father to make her his legal wife now that your mother is gone, but he refuses.'

Elinor looked startled. She had never thought of this. Of course, her father was free to marry now, but the idea had not entered her head before, and he was liable to marry another woman and then Clara would be no better off than before. for the new wife would be the legal one. She thought long and deeply of the matter, and then one day she questioned Clara in regard to it.

"Yes, it is true I have asked him to marry me over but he will not. He says my lot is no worse now than it was before, and he seems to feel remorse for the way he has used the rest of you, for he says he will not do anything to make you girls any more unhappy than you are and he thinks you would resent my being his legal wife.

Elinor thought long of the matter, and the more she thought about it the clearer her duty became. It was a hard fight, but she remembered the kindness of the young wife during her mother's illness and she knew nothing could harm that mother now. After awhile she had a long talk with Myra, then she went to see her father one evening, choosing a time when she should find him at the barn for she could not bring herself to

enter the house. "Father," she said, "I have come to ask a favor at your hands."

it," he answered readily, for really the estrangement hurt him more than he cared to own, and besides, he was learn- through whom he can strike me; it ing more and more of the inside of King must be me alone." Strang's government and what he was learning was not very favorable. From something the king had dropped he had discovered that his own second marriage man is capable of. Anyhow, Elinor, do was ordered as a punishment for that not go far from the house alone while he little rebel, as he always called Elinor,

daughter, you do not know it all. Forgive me, oh, forgive me!"

"When I can, father, I will try and do so, but mother forgave and prayed for you, and, father, do not darken another woman's life. Do the best you can for Clara," and she turned away, feeling she could bear no more.

The next day Mr. Brandon kept his promise and Clara Brandon, with tears streaming from her eyes, went to thank the girls who had been so generous to Then some months of calm passed her. for the girls. Their life was made easier than it had been, for the father saw that they wanted for nothing. But, like her mother, Myra could not survive the terrible living sorrow she was called upon to bear. Dead sorrow is hard, but who They laid her to rest on a little knoll can picture the misery of living sorrow, and it was soon apparent to all that she would sleep beside her mother in a short time. She had aged fast; although but thirty, her hair was white as snow. For a time, while her mother needed her, she had seemed to rally, but now that incentive was removed and she sat day after day with a far-away look in her eyes, living over again her days of hap-piness. Then came a blessed forgetfulness when she was once more a happy "James wife waiting for her husband. stays late tonight," she would say, plain-tively. "I wish the king did not want Will he come soon do you him so much. think, Elinor?"

"Yes, soon," the sister would answer soothingly, and she would smile and sleep.

Then there came a time when Clara came to her with her baby boy in her arms but Myra only looked at it in surprise.

"I do not understand," she said in a "They told me the baby puzzled way. died."

"What does she mean?" asked Clara.

"I believe she is thinking of the baby she lost. She does not comprehend, you see.

She fell peacefully asleep one evening, never to awaken, murmuring as she did so, "Wake me when James comes home, Elinor; I am so sleepy I cannot keep awake now. I must sleep just a little while," and she slept indeed-the sleep that knows no wakening.

After Myra was gone Clara entreated Ellinor to come home and, feeling that she could not stay in the house longer alone, she went. One thing she had been thankful for, the king had been elected to the state legislature and was absent a great deal from the island, so she had not seen him and had felt free from his persecution. Not once, however, did she ever think he had forgotten her or his hope of breaking her will.

Robert had entreated her to marry him more than once but always she had given him the same sad reply. She could not, nor would not, marry a Mormon, but he would not take her reply as final, declaring that if she did not marry him he would never have a wife.

"I heard the king came home on the steamer last evening," said Clara one morning. Just why, Elinor could not say, but a feeling of terror swept over her. Clara saw the dislike in her face and answered it. "I do not wonder you hate him, Elinor. I have no love for him my-self, but for your own sake I wish you aid not set yourself in opposition to him. "If it is within my power I will grant I cannot tell you how I dread his ill will." "My disobedience cannot hurt you, Clara, and there is no one left now

> "I did not mean that, I had no thought of harm for myself," was the quick answer, "but you do not know what the is here." As Mr. Brandon entered the



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HAM & SUES.

much attention to the business of the As an elder you must be a married man. most part of his time. He liked the water a wife for you." and he loved the glad free life.

tioned him to be seated. " "Our business "I need more men around me and spoke: I have decided that young men are perhaps better fitted to make the laws of our

Robert was surprised, but remembering he had no desire whatever to become one. she is a very capable woman, worthy of It would not do, however, to answer in a second." he had no desire whatever to become one. that manner, so he said quietly, "I thank you for your confidence in me but, in- The woman mentioned was many years deed, I am not capable of doing what you his senior, cross-eyed and repulsive. He ask nor have I a great enough degree of told himself that he would die rather piety to be an elder. I am perfectly con- than marry her, but the king was watchtent to be simply a fisherman."

was to be thus balked he was mistaken. "I appreciate your modesty," said the young man, for at the same time I mean king in a voice that sounded sarcastic, to take another wife." "but I am the best judge of the people I "Do you?" asked Robert, dully. His a voice that even Strang could not wish to confer honor upon and you are voice sounded strange, even in his own fathom. one of them. Then there is another thing. ears.

A PATRIOT.

BY LURA WARNER CALLIN.

My Papa is a soldier, I wish I were one, too. I can't see why being a girl Should hinder much, do you?

For I can wave our Bonnie Flag And shout, Hip-Hip-Hurrah! And on the Thirtieth of May I march along with Pa.

Dressed in my lovely uniform With red stripes up and down— And on my head a bright blue cap With white stars 'round the crown.

I help to strew the lovely flowers O'er all the soldiers' graves,

A G. A. R. Post's Mascot. And lay a wreath beside the flag That at each headstone waves.

But when I hear those dreadful guns Bang out the last salute, (I run and hide!) ou see, to real war I'd send My Pa as substitute.

GLENNA AND THE CONSCIENCE

The king looked at him searchingly as working fast now. He began to see do her good." (Charles was his favorite he was shown into his presence and mo- method in the other's plan. Was he only wife, so called because she often actrying to add one more bitter drop to companied him on his preaching tours may take some time," he added. .Then Elinor's already overflowing cup? His dressed as a man and addressed as silence fell for a few moments. Robert mouth shut in a determined manner. "I was becoming uneasy under the close have no wish to marry," he answered scrutiny of the man. At last the latter shortly. "Indeed, I may not be able to shortly. "Indeed, I may not be able to care about the king's wives? He was give a wife the comfort I should want longing to get out in the air where he her to have if I had one."

The king smiled. "I think differently, land than old ones, so I have decided to and I want you to present yourself at the make you an elder." tabernacle this day week and be sealed to Huldah Main. It has already been one what had happened to many of the elders, year since she lost her first husband and

The face of the young man grew white. ing him closely and he fought for self-But if he had any thought that Strang possession. He must have time to think. "You will be greatly honored also,

alsike blooms, and a spear or two of blue

about her. All about her the grass and

flowers waved, waved, waved, and sung, sung, sung, a low sweet song, like mam-

"What was mamma doing now?" Glen-na thought lazily. "Was supper most ready, and had papa come in from the

barn to help eat it. Glenna must go

home pretty soon, but how nice to hide

in the tall grass. Could mamma find

her. Glenna was playing 'hide and coop'

with mamma. Would mamma hear her

"Ask Mother Daisy over there," said

ey, "Buttercup, you tell her the rest."

if she 'cooped' real loud?"

spear grass

"Yes, you see I have but four wives island, as his fishing boat had taken the I have thought of this and have selected for the first Mrs. Strang took herself off as you know. I expect Charles will be a The mind of the younger man was bit jealous of this new one but that will Charles Douglas).

> Robert made no reply. What did he could breathe and think.

"You do not seem interested, and yet I am sure you know the lady," smiled the king, "therefore I will tell you; the new Mrs. Strang is one Elinor Brandon. At last she will be taught obedience."

Robert clenched his hands until the nails cut into the flesh. His brain reeled. As he arose he felt as though he was stifling and he feared he could not control himself much longer, yet to do otherwise might be to dash every possible chance of saving Elinor. So he said, coolly; "Is that all you want of me?" "That is all; you may go now but do not forget this day week."

"I will not forget," was the answer in

(To be continued).

clover blossoms, and some dainty sweet girls gone, and they run up the road, and down the road, and they wring their hands, and cry, "Oh, where is my baby? One chubby dimpled hand was full, and My baby is lost. Oh, what shall I do?' and they call papa, and the men at work, she rested it in her lap, while she gazed and they all go hunting for the lost baby, down by the river, and in the woods, and down the road where the automobiles ma, rocking, rocking, rocking, singing, go.

"Does my mamma feel like that?" asked Glenna, her chin quivering. "Won't they look in the meadow? Oh, I didn't mean to make my mamma feel bad. I'll go straight home."

"No, you can't," said the blue soldier men, advancing with their spears. "Little girls that run away have to be pun-ished. We will keep you here, and by and by you will turn into a Lady Butter-All at once Glenna sat up very straight cup, and when you grow old into a Mother Daisy."

"Oh, who are you?" cried Glenna in tears.

"We are the Conscience Fairles, come to tell you when you have been naughty. When you have lived with us a hundred years, if you are very good, we will turn you back into a little girl again, and send you to live with some good papa and mamma, and see if you will run away again."

"Won't it be my own papa and mamma?" asked Glenna.

"Yes," said the soldier men, "but not the ones you have now.'

"Oh, I want my own papa and mamma. I will have my own papa and mamma,' Glenna cried in great distress. She started to run and the soldier men advanced "Oh! Oh! upon her with spears poised. Oh!" screamed Glenna, and then someone's tender arms clasped her tight, and a dear voice said with a tremble in it, "Mamma's own darling little girl asleep surprised that you don't know. What if in the grass. Why, papa, her dress is nobody could find you, and what if you quite wet. The dew is falling. Take her, papa, and hurry home. Mother was so frightened, darling. Glenna must not be any supper to eat, nor any nice soft run away again. There are your flowers, bed to sleep in, and no light but the pet, all wilted. We will put them in moon and stars, and no company but the water when we get home."

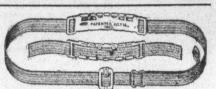
"No, no, mamma, throw them away. They are the Conscience Fairies and they told me what a naughty girl I was, and the spear men were going to turn me Buttercup came forward, her yellow into a buttercup to punish me. Throw skirts fluttering. "Little girls' mammas them away. I don't want them any more. into a buttercup to punish me. Throw are frightened when they find their little I'll never run away again long's I live."

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THE MICHIGAN FARMER.

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FAIRIES.

BY HELEN MATHIE.

Glenna's fat, short legs were wading through the grass of papa's meadow, now nearly ready to be cut for hay. Her white sun-bonnet hung down her back, and the sun beat upon her curly golden hair. She had "runned away," having forbidden to leave the nice large been yard about the house, alone. Gleefully she trudged along until the chubby legs grew tired, then down she sat and began to pull the grass and flowers toward her breaking them from the stems. First, a daisy, with its white crown and golden heart, then some buttercups, nodding on their slender stems, now some round red



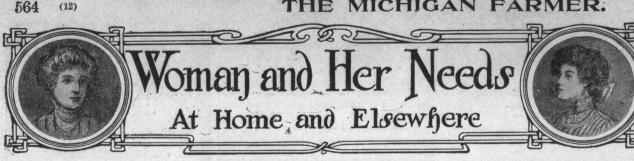
There's No Place Like Home.

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THE MICHIGAN FARMER.



May=Day Festivities-By Marjorie March.

HE month of May is a beauty time any imagination. The table may be bare indeed, and the hostess who takes of cloth, with Japanese paper doilies of of her bounty can not go far quaint design under the plates, and at wrong, for decorations are easy to plan each place a little Jap doll or any other and there are many delicious morsels for preferred favor. For refreshments serve the table which come from southern gar- candied fruits, chicken soup with rice, a dens, not too far away to make them pos- fish salad, tea and wafers and either ice sible luxuries for the table of cheer.

erpieces for May. One is a lattice built dainty is made with rice and sweetened of light wood, over which leaves are milk and gelatine, piled high with whiptwisted, while little cakes are wired on ped cream flavored with any desired to look like actual blossoms. This is a flavor. novel fancy that would be very appropriate for any springtime festivity, but particularly so for a Japanese festival. The croquet, the game of quoits and battleother picture shows a May-day cake dore and shuttlecock, any of them suffiwhich is not difficult to plan and is de-cidedly effective. A frosted cake has a the right tone to the party. If indoor pole erected in its center from which ribbons drop to the hards of little Dresden have a competition, painting cards cut china figures which seem to dance about either in the shape of lanterns or fans. the May pole. A little delicate green out- Have a time limit and at the end of the lines the centerpiece or a wreath of flowers could be used if desired.

A Dresden Party.

very dainty and one not too hard to carry a picture of a Japanese lady hung at one out, even where the pocket book must be end of the room. Give each guest a fan consulted. Use the centerpiece suggested made of paper, wallpaper answers the above, with the Dresden china figures, purpose well, and a pin, and let him try and for the rest of the table setting use to pin a fan to the hand of the Japanese china decorated with pink flowers, lady. The one who is most successful This can be as cheap as is desired but could be given a pretty paper fan, or if should be of dainty design. For bonbons, it be a gentleman, a stick pin of curious cakes, etc., use either dishes with Dresden china figures standing beside them or little baskets in soft pink and blue springtime. tones, tied with bows of pink and blue ribbon. For place cards have paper dolls softly tinted in pink and blue. These lit- one teaspoonful of chopped onion and tle ladies may have scarfs in their hands, also tinted delicately, with the guests' names written upon the scarfs. At the four corners of the table low

bowls of either pink or blue china hold cook for a few minutes, then add one egg apple blossoms.

dainties in softly tinted shades as far as possible, some games may be played, either contests written on cards decorated with "Dresden china figures" or on cards cut in the shapes of flowers.

A Japanese Party.

day design and at the four corners of the a cup of powdered sugar and the beaten table have small Japanese paper lanterns, whites of two eggs. Beat all together

cream with cakes or plum preserves and Our illustrations show two dainty cent- sweet wafers. Another dessert that is

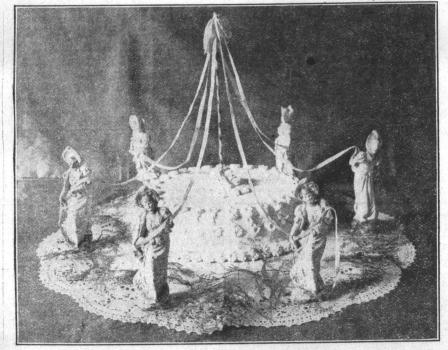
For amusement after luncheon, if the guests wish to be out of doors there are ciently suggestive of the Orient to give amusements are desired the guests may time award some prize to the one who has done the most artistic work. There can also be a contest, after the manner A Dresden luncheon is a fancy that is of the old, well-worn donkey game. Have design.

Below are some recipes suitable for the

Creamed Shad Roe. Melt two tablespoonfuls of butter, add cook. Then lay in this a shad roe which has been parboiled first and separated into small pieces, sprinkle over with flour, pour on gradually a cup of thick milk, yolk, beaten, and season with salt and After luncheon, which should consist of pepper. This is delicious served on slices of toast or in scooped out buttered rolls, browned in the oven.

Banana Snow.

Sprinkle four bananas with a bit of lemon juice and a few drops of ginger flavoring and chill well. Just before serv-For a centerpiece use the lattice May ing mash them smooth, pour over them



A Maypole Cake.

filled with apple blossoms, lilac blooms until the mixture is stiff. Keep very cool or any preferred flowers. Use Japanese until desired when it can be served in china and at the places have finger bowls glasses or with lady fingers. May Cakes. of softly tinted glass and, besides each

bowl, a box of the little wood pulp flowers Beat one whole egg and the whites of and the grated rind of an orange, and which can be bought for a few cents. two eggs until thick; add slowly one-half freezing. Serve this in tall-temmed These open when put in water and by cup of granulated sugar and one-half cup glasses and garnish with slices of banana. the way in which they expand, their of flour with a half teaspoonful of baking canned cherries and bits of chopped nuts. color or beauty or ugliness, a fanciful powder, one tablespoonful of melted but- Serve tiny cakes or thin wafers with this fortune can be woven by a hostess with ter and some rose flavoring. Bake, cut confection.

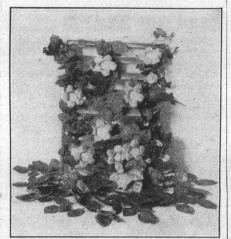
into small squares and frost with tinted frosting.

Shrimp Salad.

Make a stiff mayonnaise, add some gelatine and the contents of a can of shrimp cut into small bits. Set to harden in a mold and serve, cut in uniform slices, on lettuce leaves.

The May cakes may be iced to represent different flowers and are very dainty to send in wee crepe paper May baskets, after the New England custom. For instance, ice some cakes pink and set a rose of candied rose petals on top of each with a little candy in the center of each. For violet cakes, ice with pale green frosting and stud with candied violets. For daisy cakes, ice pale yellow, leave a little circle in the center of each cake and carefully put on "petals" of white frosting. In the same way blackeyed Susans can be made, frosting the cake with chocolate and putting on petals of yellow frosting.

Another pretty fapcy is to bake loaf cakes in oval pans, scoop out the center and fill with whipped cream. Make a handle of pastry baked over a round



A May-day Arbor of Frosted Cakes.

surface to have it the right shape and insert this carefully over the cake basket, twisting the handle with delicate green vines, This makes the most dainty dessert imaginable.

Asparague Souffle.

Use the tops of asparagus cooked previously, cut up in a thick cream sauce to which is added salt and pepper. Beat the yolks and whites of two eggs separately, adding the yolks first, and lastly folding in the whites. Bake in a buttered baking dish and serve at once.

Coffee Souffle.

Take two pints of milk and heat in a double boiler with a pint of coffee. Thicken with corn starch and add to this three tablespoonfuls of powdered sugar and a little of any preferred flavoring. Let simmer gently for ten minutes and whip into it a pint of cream with the yolks of three Then add the beaten whites of the eggs. eggs, fill baking dishes or paper cases with the mixture and when done sprinkle powdered sugar over the top and serve at once. These paper cases can be made in the shape of flowers if desired and are then dainty enough to serve at any function, even a May wedding or any special occasion of cheer.

Nut Cake.

Cream one cupful of granulated sugar and a half cup of butter and add gradually one cup of chopped nuts. Add a beaten egg and one and a half cups of flour with two tablespoonfuls of baking powder, alternating with a half cup of clear strong coffee. Bake in a moderate oven and frost with Mocha or chocolate frosting.

Orange Delight.

herers approval the dre -threat, i 'NC' Caracter and a second second

Make an orange ice by boiling four cups of water and two cups of sugar together for 20 minutes, adding two cups of orange juice, half a cup of lemon juice

FEED YOUNG GIRLS Must Have Right Food While Growing.

Great care should be taken at the critical period when the young girl is just merging into womanhood that the diet shall contain that which is upbuilding and nothing harmful.

At that age the structure is being formed and if formed of a healthy, sturdy character, health and happiness will follow; on the other hand unhealthy cells may be built in and a sick condition slowly supervene which, if not checked, may ripen into a chronic condition and cause life-long suffering. A young lady says:

"Coffee began to have such an effect on my stomach a few years ago that I finally quit using it. It brought on headaches, pains in my muscles, and nervousness

"I tried to use tea in its stead, but found its effects even worse than those I suffered from coffee. Then for a long time I drank milk at my meals, but at last it palled on me. A friend came to the rescue with the suggestion that I try Postum.

"I did so, only to find at first, that I didn't fancy it. But I had heard of so many persons who had been benefited by its use that I persevered, and when I had it made right-according to directions on the package-I found it grateful in flavour and soothing and strengthening to my stomach. I can find no words to express my feeling of what I owe to Postum!

"In every respect it has worked a wonderful improvement-the headaches, nervousness, the pains in my side and back, all the distressing symptoms yielded to the magic power of Postum. My brain seems also to share in the betterment of my physical condition; it seems keener, more alert and brighter. I am, in short, in better health now than for a long while before, and I am sure I owe it to the use of your Postum." Name given by Postum Company, Battle Creek, Mich. "There's a reason."

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



outing dresses, gowns, loung-ing robes, shirtwaists, kimonos, wrappers, children's dresses, etc. It's the **recognized** cotton crèpe of highest quality; the designs are artistic masterpieces in exquisite color combinations that captivate fastidious women, while white, black, gray and all the rich and effective tints make Ser-penvine Crèpe of greatest use for all the family, all pentine Crêpe of greatest use for all the family, all the time. The crinkle is permanent. It will neither wear out, wash out, nor stretch out.

The longest are fully guar-trade mark Look forit and economic refuse the imitations, for heattrade conomic refuse the imitations, for beauty and economy's sake.

If your dealer doesn't carry the genuine trade marked Serpentine Crêpe, write us for free samples of fabric and list of dealers who will supply you.

PACIFIC MILLS - BOSTON, MASS.



SORE EYES? inliamed? Smart? Feel Tired After Day's work? Nothing will give so sure relief as an application of THOMPSON'S EYE WATER THOMPSON'S EYE WATER Should form a part of the daily toilet. For Sate by all Druggists. Price 25c. With for set of Allegorical Art Pictures FREE. JOHN L. THOMPSON, SONS & CO. 181-5 RIVER ST., TROY, N. Y. WHEN writing to advertisers just say "Baw your ad. in the Michigan Farmer."

nother's carbeta The floore, pessibly,

A & & & & We We Live The Alley

FASHION'S FANCIES.

Not for several seasons have the hats been so really becoming as this spring. Just at present the most one sees worn are the coarse turbans of Jap or Ramme braids, though later the fine Milans, Leghorns and hemp hats are to be worn. High crowns are the rule, though there are some with low crowns and brims of the same height, or nearly as high. The high crowned hats are of the coarse straw, while the low crowned ones are more often of the fine.

Two-toned effects are very good. There are burnt straw crowns with low rolling black brims, white crowns with black black crowns with white brims and For these early tailored affairs, brims. no better trimming has been found than a stiff velvet bow. A few show flowers, but they are more for the dress hat. One smart looking hat recently shown was of fine black straw, with a high crown, and a wreath of delicate pink rosebuds around the narrow brim.

No season is complete without a few freak names, and this year we have the beehive hat for young women and the Topsy hat for girls. The beehive needs no description beyond its name. The crown is shaped as the name implies and has a narrow brim. These are often of two-toned straws, burnt and black being favorite colors. The Topsy has a high round crown with a narrow rolled brim, and is either of Milan or Jap straw.

For the dress hat the Gainsborough is very good. Everything rolls off the face. Flowers will be used in profusion, especially combinations of small posies in wreaths. In this way, everything will be used together from lilacs to tiny roses. Willow plumes will be seen, too, as well ostrich feathers and aigrettes.

As for colors, they will be the same as in suits, black, black and white, Empire green, which is a vivid Emerald green, king's blue, leather shade, coral as a trimming, and brown a very little when combined with a lighter color.

AN ARGUMENT AGAINST HARDWOOD Mashed Potatoes FLOORS.

OLISHED floors are a luxury. They should never be put into the homes of the woman who does her own work." So writes a girl to the Household Department. "When I came home from college, I gave mother and father no rest until they had hardwood varnished borders put around the downstairs floors, disposed of the good old carpets and bought new rugs. I promised to keep the floors clean myself, and mother has seen that I kept my word. I do not dare complain at home, I had so much to say before the change was made, but if we had only kept those carpets I would not go to bed tonight until they were securely nailed down to the floors. And no one would ever hear me ask for pol-

ished floors and rugs again." of chopped chives Iconoclasts do not always agree, but of minced parsley. here is one who is fighting my warfare. Long have I wanted to cry out upon the modern varnished floor, but have lacked the courage of my convictions. Learned writers and domestic science experts have told us so positively that carpets were a menace to life and that rugs and floors were the only thing from a bare hygienic standpoint, that I have never dared voice a protest against them, but now that a girl writer to this department has blazed the way, I must lend my support.

Perhaps the modern way could be made more hygienic than the old, but the way housework is done in the average home, the home of one maid or none, this way of caring for floors is no more sanitary than the old. To be really better, the rugs should be taken up every week and thoroughly dusted, or else cleaned with the vacuum cleaner, and the floors wiped home where this is done? What woman paste on your cover, let dry, and keep has the strength to drag three or four in a dry, airy place-the attic is good. 9x12 rugs out on the line each week and If no moths go in with your goods they whip them, or if she has the strength, where is she to find the time to do this and wipe up the borders of each room daily? And it is only by going over each day the floors which are much used, that ferred, bags of strong, new unbleached they can be kept looking well, and our germ fighting friends may be satisfied goods sewed up in them .- I. M. that we are allowing no dust on our To care for the floors as they floors.

mother's carpets. The floors, possibly, before applying the dye.-Mrs. J. J. O'C.

are dusted every other day, probably, not more than twice a week, and in some homes only once a week when the cleaning woman comes. The house mistress makes a few passes with the carpet sweeper over the rug each day and sweeps it once a week, and that is the only attempt made at removing dust, unless she owns a vacuum cleaner.

THE MICHIGAN FARMER.

I will leave it to any intelligent jury of housekeepers to decide whether such system is any better for the lungs of the family than the old way of carpets which came up twice a year. Certainly it is not half so restful to the nerves, for with the carpets we never saw the dust which rolls to the sides of the rooms out of the way of that sweeper. Certainly it must have been there, the bare floors now show it to us. But we did not have it in sight, irritating us on the days we simply didn't have time to get at it and clean it up, as we do now. I don't be-lieve a woman lives who can do all the work for a family of four or five and keep the dust always cleaned up from her polished floors. If such a woman does live I hope I'll never meet her. She would be so affected by her constant warfare with dust, I'd expect her to begin brushing specks off my clothes.

Seriously, I think the varnished floors very much overrated. Certainly they do not lighten woman's daily work and I doubt very much if they are a bit more sanitary as cared for in the average The only advantage they possess, home. to my mind, is that we can pick the rugs right up at housecleaning time without stopping to remove tacks.

I should like to know what some of the women who have tried both sorts of floor coverings actually think of the matter. DEBORAH.

THE SUNDAY DINNER.

Tomato Bouillon Wafers Celery Gherkins Fried Perch Sauce Tartare String Beans Dandelion Salad

Lemon Tarts

Tomato Bouillon .- Melt two tablespoons of butter and cook in it two tablespoons each of chopped onion and green pepper, for five minutes. Add one quart of tomatoes, one spring of parsley, one bay leaf, two tablespoons of horseradish, two cups of stock sait and pepper to taste, and cook 20 minutes. Strain and serve. Fried Perch and Sauce Tartare .- The perch should be dipped in flour, egg, and fine bread crumbs, after being carefully cleaned and washed inside and out, and then fried in deep fat. Drain well before serving. For the sauce, add to a cup of mayonnaise or boiled salad dressing one tablespoonful each of finely chopped cucumber pickle, olives, capers, a teaspoon of chopped chives and half a tablespoon

Dandelion Salad .- One cup of cold cooked dandelions, four hard-boiled egg yolks, one tablespoonful olive oil, two tablespoonfuls vinegar, speck of cayenne pepper. Chop dandelions and eggs to-gether, mix thoroughly and add the blended oil, vinegar and cayenne. Form in balls and serve on lettuce leaves with boiled dressing. Lemon Tarts .- Bake tart shells on in-

verted patty tins and fill with your favorite lemon filling. Cover with pie frosting and brown slightly in the oven.

SHORT CUTS TO HOUSEKEEPING.

To put woolens or furs away safe from moths, take a common wooden box not too heavy, a soap or cracker box will do if one has no packing box, make a good flour paste, cooked, and line the box with pasting one over the other: apers, free of dust every day. But is there a put in your clean woolen goods or furs, put in your clean woolen goods or furs, paste on your cover, let dry, and keep in a dry, airy place—the attic is good. If no moths go in with your goods they will come out perfect. A flour barrel will of fyou have no box, and you can paste do if you have no box, and you can paste fancy paper over the outside of either, if you wish to ornament it. Or if premuslin may be made, and the furs or

Get a package of dye, mix with hot water, and apply to the floor with a should be cared for would mean prac- scrubbing brush. When it is thoroughly tically a morning's work for one person. dry put on a coat of varnish and you will In the average home such a procedure be surprised at the floor finish. An adis, of course, impossible. The rugs may vantage in this is that you can make a be taken up once a month, but usually stain to match furnishings or carpets. they come up only twice a year, just like Remove any paint spots with sandpaper



MARKETS

DETROIT WHOLESALE MARKETS.

May 17, 1911. Grains and Seeds

May 17, 1911. Grains and Seeds. Wheat.—The weather appears to be the prices becoming strong when dry days threatened the crop in the west and southwest and weakened when copious rains, early this week, soaked the parched lands. But with the change for a better crop, sentiment abroad, where consump-tion is reducing the visible supply fast, competition is strong and the supply from Russia and other countries does not quiet the apprehensions of buyers, is such as to keep quotations here from making any sensational declines, the quotation for No. 2 red on Thursday last. Millers are not anxious buyers although the sup-ply of flour on hand is said to be the lowest in several years. The price for No. 2 red wheat on this date in 1910 was i.12 per bu. Quotations for the past week are: week are:

INO. 2	INO. 1			CI
Red.	White.	July.	Sept.	0.
Thursday92	.903/4	.89 3/4	.893/4	c
Friday	.91	.901/2	.901/4	0.
Saturday	.91	.90	.89 3/4	
Monday	.901/2	.89	.88 3/4	2.
Tuesday	.90	.89	.881/2	
Wednesday911/2	.90	.891/2	.89	De
				The.

Wednesday91½ .90 .89½ .89 Corn.-Prices are closing this week at an advance over a week ago and the average is also higher. The dry weather is alleged to be the bullish factor in the deal since the preparation of the soll for the new crop is being hampered and de-layed and the corn planted is not devel-oping as it should. The rains of Tuesday will no doubt bring, hope and perhaps weaken the price. Goods of the better grades are having a ready call, with the demand for other kinds slow. A year bu. Quotations for the past week are: No. 3 No. 3 Corn. Yellow.

	Corn. Yel	llow.
Thursday	. 55	56 @
Friday		561/4
Saturday		561/4
Monday		561/2
Tuesday Wednesday		56½ 56½
Oate The days monthen	hag foread	oata

Oats.—The dry weather has forced oats to come into the line with the major cer-eals and show strength along with them. The young plants are suffering rather seriously in Iowa and Illinois and other heavy producing states, and the trade seems inclined to balance the situation by putting quotations up. The rains will likely give much relief and influence low-er values. One year ago we were payling 45½ c per bu. for standard oats. Quota-tions for the week are: Standard No. 3 Standard No. 3

													~	COULS CLOUP C	
															Wh
Thursday			l.											37	
Friday .														37	5
Saturday														371/2	
Monday														371/2	
Tuesday	-							2	4					371/2	5
Wednesda														38	
Deene		6	-	+	-	~	-			~	~	-	++	mont	ontro

Beans.—A stronger sentiment pervades the bean deal and nominal values are being advanced. Offerings are not in-creasing with the better values. Quota-tions for the week are: Quota-Cleak

		Casn.	. Oct
Thursday		\$1.98	\$1.8
Friday		2.00	1.90
Saturday		2.00	1.90
Monday		2.02	1.90
Tuesday		2.04	1.92
Wednesday		2.04	1.93
Clover Seed. changed from a the board. No are being mad is small. Quo	a week ago transaction e and inter	as publics of imprest in	ished by portance
	Prime.	Oct.	Alsike.
FITTLe and and a local			

Thursday .	 		.\$9.00	\$7.65	\$8.75
Friday		 	. 9.00	7.65	8.75
Saturday .	 ١.		. 9.00	7.65	8.75
			. 9.00	7.65	8.75
Tuesday	 		. 9.00	7.65	8.75
Wednesday	 		. 9.00	7.65	8.75

Rye.-Rye continues to be on the up-ward course, having made another ad-vance of four cents for the week, now being quoted at \$1.04 for No. 1. Timothy Seed.-The new high figure es-tablished last week has been maintained with practically no activity. The quota-tion is \$5.60 per bu.

Hay and Straw.—Values for hay have made another advance of from \$1@2 per ton. Straw is steady. Quotations on baled hay in car lots f. o. b. Detroit are: No. 1 timothy, \$22@23; No. 2 timothy, \$19@20; clover, mixed, \$19@20; rye straw, \$7; wheat and oat straw, \$6.50 per ton. Feed.—Prices are steady with a week ago. Carlot prices on track are: Bran, \$27 per ton; coarse middlings, \$26; fine middlings, \$28; cracked corn, \$22; coarse corn meal, \$22; corn and oat chop, \$20 per ton.

per ton

per ton. Potatoes.—A steady tone rules the deal offerings being fair and demand ordinary. In car lots Michigan potatoes are selling at 48@50c per bushel. Provisions.—Family pork, \$18@19; mess pork, \$17; medium clear, \$16@17; smoked hams. 131&@14c: briskets, 10@1012c; shoulders, 10c; picnic hams, 914c; bacon, 14@1514c; pure lard in tierces, 83%c; ket-tle rendered lard, 93%c. hams, 13½@14c; briskets, 10@10½c; shoulders, 10c; picnic hams, 9¼c; bacon, 14@15½c; pure lard in tierces, 8¾c; ket-tle rendered lard, 9¾c. Hides.—No. 1 cured, 10c; No. 1 green, 8c; No. 1 cured bulls, 8½c; No. 1 green bulls, 7c; No. 1 cured veal kip, 11c; No.

THE MICHIGA
1 green veal kip, 10c; No. 1 cured mur-fain, 9c; No. 1 green murrain, 8c; No. 1 cured calf, 15c; No. 1 green calf, 13½c; No. 2 kip and calf, 1½c off; No. 2 hides to off; No. 1 horsehides, \$3.75; No. 2 horsehides, \$2.75; sheepskins, depending on wool, 50c@\$1.50.
Biry and Poultry Products.
Eutter.—There is a fairly liberal amount of butter for the trade, and with the decline of one-half cent at Elgin it was expected that lower values would rule here but last week's figures are un-changed, extra creamery holding at 21c; do, firsts, 19c; dairy, 16c; packing stock, 10.
Bigs.—Eggs are offered freely and prices have declined a cent since a week ago. Démand is good. Fresh receipts, case count, cases included, are quoted at 13.4c per dozen.
Moultry.—Values are identical with those of a week ago, and the market is quiet and easy. Quotations: Dressed-Turkeys, 18@20c; chickens, 15@16c; hens, 15 @16c; ducks, 17@18c; geese, 13@14c 1b. Live. Spring chickens, 15@16c; hens, 15 @16c; old roosters, 10@11c; turkeys, 15@ 18c; geese, 11@12c; ducks, 15@16c; hens, 15 @16c; old roosters, 10@11c; turkeys, 15@ 18c; Swiss domestic block, 16@18e; ceam brick, 14@13i2c; limburger, early, 14 @15c; Swiss domestic block, 16@18e; ceam brick, 14@13i2c; limburger, early, 14 @15c; Swiss domestic block, 16@18e; ceam brick, 14@13i2c; limburger, early, 14 @15c; Swiss domestic block, 16@18e; ceam brick, 14@13i2c; limburger, early, 14 @15c; Swiss domestic block, 16@18e; ceam brick, 14@13i2c; limburger, early, 14 @15c; Swiss domestic block, 16@18e; ceam brick, 14@13i2c; limburger, early, 14 @15c; Swiss domestic block, 16@18e; ceam brick, 14@13i2c; limburger, early, 14 @15c; Swiss domestic block, 16@18e; ceam brick, 14@13i2c; limburger, early, 14 @15c; Swiss domestic block, 16@18e; ceam brick, 14@13i2c; limburger, early, 14 @15c; Swiss domestic block, 16@18e; ceam brick, 14@13i2c; limburger, early, 14 @15c; Swiss domestic block, 16@18e; ceam brick, 14@15c; limburger, early, 14 @15c; Bushei, Thene market

per busnel. Pineapples.—\$1.75@2 per dozen. Apples.—The market is active and firm at steady prices. Baldwins, \$6.50@7; Steel reds, \$6.50@7; ordinary grades, \$4.50@5 per bbl. Western apples, \$2.75@3 per box.

OTHER MARKETS.

Grand Rapids.

Grand Rapids. The potato market is suffering another slump, prices at loading stations dropping off this week to 25@30c and buyers not anxious to take hold at these prices. As to whether the market will recover its strength nobody knows. Eggs are lower, jobbers paying 15@15¼c, as compared with 15½c last week. Dairy butter is worth 16c, a decline of 1c, while creamery is off ½c. Live poultry is practically un-changed, with fowls at 12½c; ducks, 13c; turkeys, 16c, and broilers 28c. No. 2 red wheat is worth 88c.

Chicago.
Wheat.—No. 2 red, 96%@98c; July, 885%c; Sept., 871%c per bu.
Corn.—No. 2, 54@54¼c; July, 52%c; Sept., 53c per bu.
Oats.—No. 2 white, 35@35¼c; July, 133½c; Sept., 3314c.
Barley.—Malting grades, 80c@\$1.00 per 5 bu; feeding, 65@75c.
Butter.—Receipts continue in excess of actual requirements and the market has a weak undertone. Prices, however, show no change from last week. Quotations are: Creameries, 16@21c; dairies, extra, 18c per 1b.

Autor of a Weak undertone. Frices, nowever, show star, on change from last week. Quotations 36½ are: Creameries, 16@21c; dairies, extra, 36½ 18c per lb.
Eggs.-Unusually heavy receipts have sagged 1½c since this time last week but 37½ this sharp reduction appears to have had rades little effect upon the demand. Quotations are tions are: Prime firsts, 15½c; firsts, 14½c
tin- per doz; at mark, cases included, 12½@
total 13c per dozen.
Potatoes.-With 133 cars of potatoes
Oct, received on Monday of this week, nearly \$1.88 half of which were new stock, prices fell 1.90 rapidly and are now quoted 13c lower 1.90 than at this time last week. Market is 1.90 easy with new selling at 90c@81 per bu.
1.92 for good to choice stock. Quotations on 1.95 old potatoes are: Choice to fancy, 43@
un- 45c per bu; fair to good, 40@42c:
un- 5c per bu; prime, \$1.95@2.05; red kidneys, 8.75 stare up 10c on all grades, while red kidneys are quoted \$1 higher. Choice sike. hand-picked pea beans quoted at \$2.08@2.15
\$4@4.25 per bu.
\$75 values, market ruling firm. All grades 8.75 of straw about 50c lower. Quotations: 8.75 of straw about 50c lower

mestic quotations for old goods: Ohio and Pennsylvania fleeces—Delaine wash-ed, 30c; XX, 28@29c; ¼-blood combing, 26c; ¾-blood combing, 24½@25c; ¼-blood combing, 23@24c; delaine unwashed, 24c; fine unwashed, 18@19¼c. Michigan, Wis-consin and New York fleeces—Fine un-washed, 17¼@17¼c; delaine unwashed, 23c; ¼-blood unwashed, 25c. Kentucky, Indiana and Missouri—%-blood, 25c; ¼-blood, 23c. blood, 23c.

New York. Butter.—The general tendency toward weakness and lower values in the butter markets of the country has affected prices markets of the country has affected prices here, creameries being quoted 1c lower. The market is reported steady at the lower range. Creamery specials are quoted at 22c; extras, 21c. Eggs.—All grades from 1@2c lower. Market weak. Fresh gathered extras, 19c; firsts, 16@17c; seconds, 15½@15¼c; storage packed, firsts, 17½@18c. Poultry.—Live. Western spring chick-

THE MICHIGAN FARMER.

Chicago. May 15, 1911. Cattle, Hogs. Sheep. Received today25,000 40,000 20,000 Same day last year. 21,484 38,536 20,598 Received last week. ...49,731 114,843 74,563 Same week last year. 41,397 94,148 59,170 This is a hot Monday, and lots of dead hogs are being taken from overloaded cars, heavy ones dying the fastest, as usual. There is a great scarcity of light hogs, and prime sold up to \$6.45, the gen-eral market being steady, following last <text><text><text><text><text><text>

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LIVE STOCK NOTES.

MAY 20, 1911

THIS IS THE LAST 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 18, 1911.

Cattle. cows and light butchers 10@15c Receipts, 746. bulls. higher.

Receipts, 746. Good grades steady; bulls, cows and light butchers 10@15chigher. We quote: Best steers and heifers, \$5.85; steers and heifers, 1000 to 1.200, \$5.25@5.50; steers and heifers, 800 to 1.200, \$5.25@5.50; steers and heifers, 800 to 1.200, \$5.25@5.50; steers and heifers that are fat, 500 to 700, \$4.50@5.15; choice fat cows, \$4.50@4.75; good fat cows, \$3.75@4.25; common cows, \$3@3.50; canners, \$2@3; choice heavy bulls, \$4.50@4.75; fair to good bolognas, bulls, \$4.60@4.75; fair to good bolognas, bulls, \$4.60@4.75; fair to good bolognas, bulls, \$4.60@4.25; stock bulls, \$3.50@3.75; choice feeding steers, 800 to 1.000, \$4.64.65; fair stockers, 500 to 700, \$3.50@4; stock heifers, \$3.25@3.50; milk-ers, large, young, medium age, \$40@60; common milkers, \$25@35. Bishop, B. & H. sold Schlischer 4 steers av 1.025 at \$4.25; to Parker, W. & Co. 3 bulls av 1.070 at \$4.50, 1 cow weighing 780 at \$2.50, 1 do weighing 880 at \$3.25; to Sullivan P. Co. 1 do weighing 1.300 at \$4.75; to Newton B. Co. 9 butchers av 918 at \$5.25, 5 do av 720 at \$5.50, 5 do av 1.096 at \$5.50, 1 bull weighing 860 at \$4.3 butchers av 987 at \$5.50; to Kam-man B. Co. 4 steers av 925 at \$5.60; zo W. J. Kamman 12 do av 895 at \$5.60; zo W. J. Kamman 12 do av 895 at \$5.60; zo W. J. Kamman 12 do av 895 at \$5.60; zo W. J. Kamman 12 do av 895 at \$5.60; zo W. J. Kamman 12 do av 895 at \$5.60; zo W. J. Kamman 12 do av 895 at \$5.60; zo W. J. Kamman 12 do av 895 at \$5.60; zo W. J. Kamman 12 do av 895 at \$5.60; zo W. J. Kamman 12 do av 895 at \$5.60; zo W. J. Kamman 12 do av 895 at \$5.60; zo W. J. Kamman 12 do av 895 at \$5.60; zo we av 1.190 at \$4.50, 1 canner weighing 1.730 at \$4.75, 1 do weighing 1.700 at \$4.50; 6 steers av 808 at \$5.25, 3 bulls av 810 at \$4.50; to Sullivan P. Co. 1 bull weighing 1.730 at \$4.75, 1 do weighing 1.370 at \$4.50; to Newton B. Co. 3 butchers

i.730 at \$4.75, 1 do weighing 1,01 v 78 at \$1.50; to Parker, W. & Co. 500 at \$4.50; to 8 butchers av 890 at \$5.25, 2 do av 740 at \$2.50; to 8 at \$3.25; 2 do av 740 at \$2.50; to 8 at \$3.25; 2 do av 740 at \$2.50; to 8 weith and 1 as to 9 at \$3.25; to 7 bills av 1,025 at \$4.25; to 8 a

Long sold same 7 av 140 at \$7. Hendry sold same 2 av 155 at \$7. Youngs sold Parker, W. & Co. 5 av 50 at \$7.

150

THE MICHIGAN FARMER.

at Detroit. Foreign.

Hendry sold same 2 av 155 at \$7.
 Youngs sold Parker, W. & Co. 5 av at Detroit.
 Tob at \$7.
 Chase & Son sold Hammond, S. & Co.
 av 155 at \$6.50.
 Brewer sold Newtor B. Co. 2 av 155
 at \$5. \$ av 146 at \$6.75.
 Broyle sold same 2 & av 140 at \$7.
 Johnson sold Sullivan P. Co. 5 av 125
 at \$6. 29 av 135 at \$6.50.
 Sheep and Lambs.
 Receipts, 2.402. Market 40@50c higher takes is a sold be are the sold same 2 as a sold be sold same 3 av 140 at \$7.
 Sheep and Lambs.
 Receipts, 2.402. Market 40@50c higher takes is a sold be averaged pluck and added on a sold sold be charter as a sold be than last week: quality common. Best sold for the sold sold be common sold sold be charter as a sold and is a sow in the hands of the provision of about 40,000, has capiture as the sold solution of about 40,000, has capiture as the sold solution of about 40,000, has capiture as the sold solution of about 40,000, has capiture as the sold solution of about 40,000, has capiture as the sold solution of about 40,000, has capiture as the sold solution of about 40,000, has capiture as the sold solution of about 40,000, has capiture as the sold solution of about 40,000, has capiture and it is believed that the federals are now so hard pressed that a settlement of Makico City. President Diaz has given and it is believed that the federals are now so hard pressed that a settlement.
 The co. 5 do av 75 at \$8.50.
 So do av 75 at \$8.50.
 Brordine sold Nagle P. Co. 6 shee

2 70 at \$3, 117 do av 95 at \$4.50.
Boyle sold Newton B. Co. 6 spring lambs av 50 at \$7, 25, 4 sheep av 100 at \$6, 57, 7 lambs av 75 at \$5.
at Wickman sold same 7 lambs av 60 at \$5.50, 7 sheep av 115 at \$5.50; to Parker, W. & Co. 7 do av 75 at \$6, 20 do av 70 at \$5.50, 7 sheep av 115 at \$3.50.
at Lewis sold Sullivan P. Co. 20 sheep av 165 at \$4.25.
Thursday.
Receipts, 5,329. Market 5c lower than to m Wednesday; 5c higher than last 7 mored. Farmers have most of their spring plowing done. Oats all up and doing fine. The last few days have been warm, followed by a good rain, which has brought on all kinds of vegetation with a jump. Horses and all kinds of spring pigs throughout the country. Good milch cows are high in price, a car load shipped in here from Elgin selling as high as \$129. These cows were all Herestors are low except corn and eggs, which are going up a little. Lots of spring pigs throughout the country. Good milch cows are high in price, a car load shipped in here from Elgin selling as high as \$129. These cows were all Herestors and said to be of the best.
S. E. Mecosta Co. Wheat, rye and grass have wintered well. Spring is late and spring work not as far advanced as usual. Only the first leaves are beginning to open up. Potatoes are selling for about the count in the first leaves are beginning to open up. Potatoes are selling for about the count in the first leaves are beginning to open up. Potatoes are selling for about the count in the open up. Potatoes are selling for about the count in the first leaves are beginning to open up. Potatoes are selling for about the count in the first leaves are beginning to open up. Potatoes are selling for about the count in the first leaves are beginning to open up. Potatoes are selling for about the count in the first leaves are beginning to open up. Potatoes are selling for about the count in the first leaves are beginning to open up. Potatoes are selling for about the count in the first leaves are b



is made from the above named material. Will not absorb moisture. Better than cement. Its strong blocks and interlocking clamps give the necessary strength. This Silo is Storm Proof and Fire Proof. Requires no painting, needs no attention. Every owner is its friend and Advocate. Simple to construct—moderate in cost. Preserves the ensilage perfectly. Send for FREE Booklet. IMPERISHABLE SILO CO., HUNTINGTON, INDIANA.



IORTICULT

THINNING FRUIT.

will concede the expediency of thinning most kinds of fruit; will admit that it makes larger, fairer, better, more salable the insects are in the pupal stage, sprayfruit; that it even increases the bulk of ing is perhaps the most efficient remedy fruit a tree will yield, and yet not all for this troublesome pest. fruit-growers practice it thoroughly. Man, as a general rule, is avaricious. He plants others made elsewhere seem to show that a tree or bush, excites by stimulating either Bordeaux mixture alone or in manures its fruiting capacity to the highest degree and in his eagerness for abundant crops causes weakness and an early death.

Nature perpetuates all fruits by the vital energies of the plant. Thinning fruit lessens the number of seeds to be ripened by a tree and therefore increases its vigor. Judicious thinning improves the quantity, quality and general appearance. Peaches should not be allowed to be nearer to each other on the tree than the vicinity of vineyards. four inches, and will then, as a rule, produce more in quantity than when Grapes left to themselves set nearer. many bunches of small size, having many green berries, ripening unevenly. Remove many of these bunches and you will be rewarded. The tendency of most pears is to over-production. Thin severely while the fruit is quite small. Repeat the same operation when the fruit has made about one-half its rapid growth to-Ripen these with care ward maturity. and the result will be pears in perfection and a week or ten days earlier than those that have not been thinned. Thinning apples sets beneficially and has a tendency to promote an annual crop of fruit. Pick part of the crop of currants from each bush while green and mark the Gooseberries are not so exhaustresult. ing upon the bushes as other small fruits, being used generally before ripe.

Thinning of fruit is also a great protection against disease of the tree and It increases the vigor and health fruit. of the plant or tree, adding size and color to the fruit, imparting increased flavor, thereby gratifying the palate and pleasing the eye. The demand for strictly prime fruit is much greater than the supply, and those who produce the best are always sure of obtaining the best prices. WM. PURDUE. Indiana.

CONTROLLING THE ROSE CHAFER.

A most serious pest which the fruit grower in the United States has to contend with, and which particularly attacks grapes, cherries, raspberries, blackberries and flowering plants, is the rosechafer or "rose bug." The rose-chafer is not confined alone to the grape-growing states, but may be found doing considerable damage from Maine and the applied often enough to keep the plants New England states westward through well covered. York and Cntario to southern Minnesota, thence southward and westward including Iowa, Nebraska and Colorado, New Mexico and Texas. East of the oil. He uses a five-gallon, square kero-Mississippi river it occurs as far south as North Carolina and Tennessee.

causes most damage to the grape, the New York agricultural experiment station has spent considerable attention to find a means of keeping it in check. Bordeaux mixture, arsenate of lead and lime-sulphur were used in 1909, with a large measure of success. That station, however, secured some surprising results in killing the grape flea-beetle by spraying with a mixture of arsenate of lead mixed with glucose and also molasses, the extermination being accomplished in must be sprinkled with the mixture in transportation per year; hence, it four hours. Having learned this it was again. To protect the home supply, the would not be impossible to calculate in a decided to try it against the rose-chafer. above quantity of mixture will last all general way the increased amount he The arsenate of lead and glucose sprayed of 10 lbs arsenate of lead. 25 lbs. of glucose and 100 gallons of water, killed the beetles by the following day and the vines were practically free from length. When the vines get about one ability of damage to the fruit, also the rose-chafers during the week. It was a very common thing to find the dead beetles clinging to the leaves and blossom clusters. It thus appeared that at over the arbor. They will cling to the better fruit lands, those which are more last a remedy had been found and that it would be advisable to spray the entire vineyard with this mixture to save the fruit. The grapes were picked in September and October and careful account ground. was made of the weight of the crop from the sprayed plants and the unsprayed check plots. The acre of unsprayed Ni- ilar results by simply placing brush over orchard, providing the soil and location agara grapes yielded 1,271 lbs. with a the hills and the vines will crawl all over are well adapted to fruit, keeping in mind value of \$25.42. The plot sprayed with them, completely shading the ground. of course, that the handicap will be less the arsenate of lead and glucose yielded This I have seen done with very good re- if he grows hardier fruits, like apples.

4,235 lbs. to the acre, with a value of sults; but the arbor must be ornamental value of \$19.36.

THE MICHIGAN FARMER.

that the ravages of the rose-chafer may Almost every experienced fruit grower be checked to some extent by frequent cultivation of the land from the last week in May to the middle of June when

The results of the experiments and of combination with arsenate of lead is not to be relied upon when the beetles are very abundant. The Michigan station has made similar tests to those at New York with arsenate of lead and glucose production of seeds. The maturing of and it would seem that the most practical these makes the heaviest drain on the remedy is a spray of 10 lbs. of arsenate GASOLENE VS. HAND POWER SPRAY. of lead, 25 lbs. of confectioners' glucose, (or a gallon of molasses), and 100 gallons of water. The material should be applied as soon as the beetles first appear on the vines. Every effort should be made to prevent the insect getting a foothold in

GROWING CUCUMBERS.

No farm garden is complete without cucumbers; and few housewives are satisfied without a generous supply, as pickles are generally in good demand in the "home market.

If the appetite is poor, nothing will sharpen it like a good pickle; yet there is no plant of the garden we have to guard with more watchfulness and care than the cucumber, as it has many enemies in the shape of different kinds of bugs that will quickly destroy the tender plants.

Among these pests there is nothing so much to be dreaded as the striped cucumber beetle. This beetle lays its eggs at the base of the roots and the little white grubs resulting from them feed on the roots all through their development. This often causes the plants to die suddenly, and one not accustomed to their habits can see no cause; but, if the plants were pulled up, the roots would be seen to be badly gnawed, and many times entirely eaten off. The same insects are nearly as destructive on melons and squashes.

There is also a plant disease that is carried by these beetles. This disease makes its apearance after the plants are of good size and have commenced to run, when they die very suddenly and unexpectedly, as does also the squash from the same disease.

When we have but few plants we have protected them from the beetle by using frames covered with netting, but when grown to any extent, other remedies have to be relied on. Carbolized lime, or tobacco dust are recommended, provided the plants are dusted before the beetles have gotten a taste, and provided it is

One grower says the best remedy he has ever found for these pests, is a simple preparation of wood ashes and kerosene sene oil can, which he fills with sifted ashes, packed down tight. A hole is made In view of the fact that this insect in the center with a broomhandle or other round stick and into this is poured one quart of kerosene oil. The vessel is then covered and allowed to stand over night. Next morning the ashes are emptied into a tub or bucket where they can transporting, which would necessarily be well stirred up. While the plants are need to be added to the cost of producdamp with dew the ashes are sprinkled tion. For this reason one could locate on over the vines and on the ground around higher priced land nearer his market, the stem, and under the leaves and not a bug will trouble them for at least two itial investment. One could afford to inweeks, unless it rains, in which case they vest an additional \$100 for every \$6 cost summer.

hod of culture we think well His me bed about six feet wide and any desired there is always to be reckoned the probthe bed, about eighteen inches high and rials to the farm, etc.

\$84.70. The spraying cost \$3.50, leaving as well as useful. In the bed referred to, a profit of \$55.70. Another unsprayed the rows of cucumbers were about three plat yielded but 968 lbs. of fruit with a feet apart and two feet in the row. In this way the arbor can be easily made

While the New York station believes and fruit readily picked from either side. Cucumbers, to make the most desirable pickles, should be picked early in their growth. Overgrown, seedy specimens will soon ruin the most thrifty vines, therefore picking should be regularly done and the vines carefully searched.

> We practice cutting from the vines, leaving a small portion of the stem on the cucumber. This has much to do with the keeping quality of the pickles.

> Cucumber culture is an industry that is fast gaining ground, as will be seen by the great number of salting stations established throughout our state.

Oceana Co. J. M. W.

ING OUTFIT.

With our gasoline engine outfit we run two lines of hose with a quadruple vermorel nozzle on one rod and a double Vapo of large size on the other, the vermorel being used by the man on the tower where it is less likely to bother by catching on the limbs. In spraying large trees that are close together so there is not too much driving we can run out 200 gallons in about an hour. The rotary tank pump will fill the tank in about six minutes. While this is being done one man puts in the lime-sulphur while the other oils and looks after the pump and engine. On an average we will put on about 1,000 gallons in eight hours.

With a hand pump of medium size two men should be able to put on about 300 or 400 gallons in this length of time. With a large pump, with a $2\frac{1}{2}$ to $2\frac{1}{2}$ cylinder three men with two lines of hose might put on 500 gallons. These things depend upon the size of the trees, size of nozzle, capacity of the pump, convenience of water, size of barrel or tank, and many other things. One thing should be remembered by the small orchardist, and that is that he can do just as good a job as the man with a power outfit if he has a good pump with a good man at the handle, a good rod and nozzle and a careful man to hold them, and a tower so he can get the spray into the tops of the trees.

Calhoun Co. S. B. HARTMAN

DISTANCE FROM RAILROAD FOR FRUIT GROWING.

I have 80 acres of cutover, or wild land in Newaygo county, Mich., which is part good fruit land, part grass and part farm-ing land. Now, this is six miles to the Ing land. Now, this is six miles to t nearest railroad and eight miles to tw Is this land too far out for fruit growin say apple or peach growing, which want to engage in? Warren Co., Ill. H. W. V. T. to town ing

The distance of a fruit farm from the market or railroad is a permanent condition that should be carefully considered in locating an orchard. However, the distance mentioned by the inquirer would not seem to be prohibitive, especially in the production of apples, as this fruit well packed, will stand transportation where care is exercised in handling, and where the fruit is conveyed on wagons equipped with springs. Of course, the character of the roads would have something to do with the degree of safety with which the fruit could be conveyed. There would always be the expense of providing he is in shape to stand the inmight invest with profit in land near his than at some greater disworthy of consideration. He makes the tance. Besides this cost of production, foot long he builds an arbor of brush over conveying of spraying and packing mate-Whereas, on the allows the vines to climb up through and other hand, it is often possible to secure brush like the grape vine where it has particularly adapted to the varieties to something to cling to. This will keep be grown, at some distance from the down the weeds and also hold the mois- market. These considerations must, of ture as the vines densely shade the course, be decided in the particular instance. However, we do not consider If one does not care to build an arbor the distance mentioned as prohibitive, as described above, they may obtain sim- and we advise H. W. V. T. to plant his

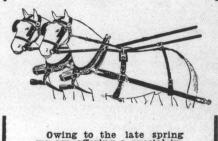


Don't hold yourself respon-sible for the mistakes you have made in judging harness quality.

Almost anybody can be deceived in a *finished harness*, for only an expert of long experience can be trusted to discover soft spots and defects that occurs in even the best that occur in even the best grades of harness leather.

Confidence in the skill of our experts and in the old fashioned bark tannage by which our leather is prepared —a process that requires five months to tan a single hide— enables us to make "Guaran-teed Quality" a part of the name of Williams' Harness.

Put it up to us, Mr. Harness User, and let us return your money if any harness you buy from us fails to give the full-est measure of satisfaction.



Owing to the late spring we are offering a special in-ducement to harness buyers in the above Williams' Double Farm Harness. We will fill orders for this harness at the special prices quoted below until June 30th only. Send TODAY for a fuller descrip-tion, if desired.

Williams' Double Farm Har-ness: Bridles, 34-inch; Concord Blinds-Lines, 1-inch, 20 feet long -Breast Straps and Martingales, 1½-inch—Traces, 1½ and 1¾-inch; three rows of stitching.

No. 10G19554 11/2- \$22.50

No. 10G19555 134- \$23.50

Our Special Harness Catalog fully describes more than seventy different patterns of Williams' Guaranteed Quality Harness; also saddles and saddlery goods of every kind. Free for the askins. You need this book if you want harness of quality.



FRUIT NOTES AND PROSPECTS.

Thus far the prospects are good for a bumper crop of fruit in this section, earliest strawberry blossoms were blackbeing the salvation of many blossoms if where lime-sulphur was used. it is not the best for the newly set plants and trees.

weeks we should have a larger apple crop than we have known for several years, but it is still too early for definite predictions. One thing certain, we must Even if the blossoming is light we fall. should. not be disheartened, for I have known a very light blossoming to produce a good crop, though the average person were sprayed that there would not be a bushel to the tree. Those who did not spray at this time did not get a bushel to the orchard, in many cases.

goes, and we tried them both last summer. Both are good fungicides and con- boiled lime-sulphur, as advised by the trolled the scab almost entirely, but there experiment station bulletin. was more russeting on the fruit sprayed on fruit intended for market. an extent.

phur as the fungicide, while, where Bor- do. One good crop will about pay for the stant working in the rows and about the deaux was used some at the edge of the trees, but doesn't leave many profits. If plants as they grow up out of the trench orchard near badly infested trees had scientific men could concentrate their will have the soil perfectly level at or by

THE MICHIGAN FARMER.

fruit quite badly scale marked.

For an arsenical poison arsenate of ing. lead has come to be the standard poison. Apples are, as a rule, set quite full It is claimed to be the only safe arsenical where there was not a crop last year, to use in connection with the lime-suland with good weather for the next two phur as a summer spray, and its adhesive qualities are so superior to Paris green that I believe it is really more economical to use even in connection with Bordeaux. Pears, plums, cherries and peaches are spray well now if we wish good fruit this blossoming quite full. There is more of a tendency among farmers to spray these fruits, as they find that if they do not spray the fruit either drops or is too wormy to use to advantage. If the cherwould have declared at the time they ries are given a spray of arsenate of lead of the state where a good soil can be lifting power, and recently-planted things soon after the blossoms drop, and again a couple of weeks later, there will be few this earliest of our garden plants is Conwormy cherries. Plums need three or four sprays after blossoming to control What to use for this spray is still a the curculio well, and then they may get debatable question so far as the fungicide some of the fruit. Pears can be sprayed is concerned. Some will use lime-sulphur the same as apples. It is well to put grown, show vigor and are of good size, entirely, some Bordeaux mixture, many about three pounds of blue vitriol and Dig a trench where the rows are wanted will try both. For the farmer growing six of lime to 50 gallons with these sprays fruit for his own use where he is not so for the shot hole fungus, rots and other particular about the russeting of the fruit fungous diseases, or a gallon of limeby the Bordeaux mixture, it will make sulphur to 50 instead of the vitriol and little difference so far as our experience lime. If peaches are troubled with rot they may be sprayed with weak self-

with Bordeaux which is not so desirable the pale narrow leaves which come in earth about the roots so as to leave no Another tufts from the scaffold branches of the air spaces to dry out the roots or to re-

labors upon this disease and even learn the end of the first season. In the though we do not know when a single Last year we used one and one-half how and when it is spread it would be the tops should be cut away before they night may change the prospect. The gallons of the commercial lime-sulphur worth millions of dollars to the fruit have produced seed, and burned to preto 50 gallons, or 1 to 33. This year we growers. At present you can not get the ened in the bud by the hard frosts and may use a little less, perhaps 1 to 40 or department authorities to make a single liberal application of well-decayed barnfreezes of early May but most of those even 50. The scab was controlled so well definite statement in regard to the disnow out are all right yet, though we last year that I do not believe it will be ease. They prefer to avoid it and work the fall, and in the spring this should be came very nearly having a hard frost necessary to use it as strong, and per- at some easier, non-essential subject. It spaded into the surface. Do not cut last night the dry weather and lack of hape it will do away with some of the is something of a chestnut perhaps, but stalks from the plants until the third rain before the change of temperature russeting which was present even slightly the chestnut must be cracked before we can get at the rich meat of peach grow-

Calhoun Co. S. B. HARTMAN.

ASKS HOW TO GROW ASPARAGUS.

Can asparagus be grown in southwest-ern Michigan? I should like to start a bed and would like to know the best varlety, also the best time. What kind of soil is best? Give entire culture. We Give entire culture. We bers and have not seen are new subscribers and anything on the subject. Van Buren Co. V. E. F.

Asparagus may be grown in southwestern Michigan or in any other part supplied. The most popular variety of over Colossal. The plants are usually set in the spring. A loose, easily worked, rich sandy loam is preferable. Use oneyear-old plants that have been well grown, show vigor and are of good size. (the rows should be about five or six feet apart in the rows) making the trench from 10 to 16 inches deep, according to the depth the soil will allow; place in the bottom of this trench a few inches of well-composted manure and pack it down Over the manure put about an well. equal amount of rich surface soil and up-The yellows are beginning to show by on this set the plants. Carefully pack advantage of lime-sulphur is its value peach trees. If this disease could only tard growth. Leave some of the trench wind from the southwest was at times in controlling the spread of the young be controlled I believe peach growing to fill later. Some practice putting a very severe. Even the branches of the In controlling the special of the young would be a fairly safe speculation almost layer of compost or decayed manure upon trees broke away from the wind pressure ence last season I believe it does to quite anywhere in southern Michigan, but to the soil after the plants are in. The in a way I have never seen elsewhere, and Even where some trees were grow a peach orchard to more than five practice can do no harm and is bound to everything planted, even the gooseberry, quit badly infested with the scale there or six years of age in a locality where furnish food for the plants later since had for a time to be supported by stout was practically none on the fruit where peach yellows abounds and is not con- they are liberal feeders. Cultivation stakes. the summer sprays contained lime-sul- trolled by inspectors is about all we can should begin immediately and the con-

fall vent the spread of fungous diseases. A yard manure should also be added during season since the food gathered by the roots and leaves are required to get them well established after which they will go. on and produce stalks for many years, providing, of course, that the soil is given enough plant food to sustain the plants. The crop is too little grown, since it is a promoter of health by bringing to the home the first green product to intersperse in the menus of the springtime and break the long spell of feeding on "much meat and no vegetables."

FIRMING PLANTS AFTER FROST.

Frost, as everybody knows, has great always require some pressure to firm them after the frost goes. If this is not given the plants may die. This refers more especially to small plants, but I found it necessary after a spell of frosty weather, to go round recently planted strawberries and apply foot pressure to firm the soil near them, as strawberries will not thrive in loose soil; and the same treatment should be given to all plants which have been disturbed in any way. either by frost or wind. No one should plant a tree or large shrub without securing it from wind-pressure. In some places, especially near the seaside, this wind pressure is very great. Some years ago I was living within three miles of the sea. Our place was elevated and exposed, though very lovely in summer, but the very severe. Even the branches of the

W. R. GILBERT.

Can't Get Away From

Is it possible to nourish, strengthen and Rebuild the Brain by Food?

Every man who thinks uses up part of the brain each day. Why don't it all disappearoand leave an empty skull in say a month of brain work? Because the man rebuilds each day.

If he builds a little less than he destroys, brain fag and nervous prostration result sure. If he builds back a little more each day, the brain grows stronger and more capable. That also is sure. Where does man get the material to rebuild his brain? Is it from air, sky or the ice of the Arctic sea? When you come to think about it, the rerebuilding must be in the food and drink.

That also is sure.

ore gaol

Are the brain rebuilding materials found in all food? In a good variety but not in suitable proportion in all.

To illustrate: we know bones are made largely of lime and magnesia taken from food; therefore to make healthy bone structure we must have food containing these things. We would hardly feed only sugar and fat to make healthy bone structure in a growing child.

Likewise if we would feed in a skillful manner to insure getting what the brain requires for strength and rebuilding, we must first know what the brain is composed of and then select some article or articles (there are more than one) that contain these elements. .

Analysis of brain by an unquestionable authority, Geoghegan, shows of Mineral Salts, Phosphoric Acid and Potash combined (Phosphate of Potash) 2.91 per cent of the total, 5.33 of all mineral Salts.

This is over one-half.

Beaunis, another authority, shows "Phosphoric

Acid combined" and Potash 73.44 per cent from a total of 101.07.

Considerable more than one-half of Phosphate of Potash.

Analysis of Grape-Nuts shows: Potassium and Phosphorus (which join and make Phosphate of Potash) is considerable more than one-half of all the mineral salts in the food.

Dr. Geo. W. Carey, an authority on the constituent elements of the body, says: "The gray matter of the brain is controlled entirely by the inorganic cell-salt, Potassium Phosphate (Phosphate of Potash). This salt unites with albumen and by the addition of oxygen creates nerve fluid or the gray matter of the brain. Of course, there is a trace of other salts and other organic matter in nerve fluid but Potassium Phosphate is the chief factor and has the power within itself to attract, by its own law of affinity, all things needed to manufacture the elixir of life."

Further on he says: "The beginning and end of the matter is to supply the lacking principle, and in molecular form, exactly as nature furnishes it in vegetables, fruits and grain. To supply deficiencies-this is the only law of cure."

The natural conclusion is that if Phosphate of Potash is the needed mineral element in brain and you use food which does not contain it, you have brain fag because its daily loss is not supplied.

On the contrary, if you eat food known to be rich in this element, you place before the life forces that which nature demands for brainbuilding.

Mind does not work well on a brain that is broken down by lack of nourishment. A peaceful and evenly poised mind is necessary to good digestion.

Worry, anxiety, fear, hate, etc., etc., directly

interfere with or stop the flow of Ptyalin, the digestive juice of the mouth, and also interfere with the flow of the digestive juices of stomach and pancreas.

Canada

Therefore, the mental state of the individual has/ much to do (more than suspected) with digestion.

Brain is made of Phosphate of Potash as the principal Mineral Salt, added to albumen and water.

Grape-Nuts contain that element as more than one-half of all its mineral salts.

A healthy brain is important, if one would "do things" in this world.

A man who sneers at "Mind" sneers at the best and least understood part of himself. That part which some folks believe links us to the Infinite.

Mind asks for a healthy brain upon which to act, and Nature has defined a way to make a healthy brain and renew it day by day as it is used up from work of the previous day.

Nature's way to rebuild is by the use of food which supplies the things required. Brain rebuilding material is certainly found in

Grape=Nuts

"There's a Reason"

Postum Cereal Comyany, Ltd., Battle Creek, Mich.

ULTRYAND BEES

ALFALFA AS POULTRY FOOD.

Alfalfa rightly used-fed green in summer, and in winter in the form of hay or ensilage-will reduce the cost of feed at least one-half. A pound of dry alfalfa or alfalfa hay contains as much protein ages of water glass in each receptacle, as one pound of wheat bran. Yet few poultry keepers seem to realize the value of alfalfa as a poultry food. In summer, green alfalfa is of especial value to poultry confined in yards where there is no grass growing.

When used green, mow it as wanted and cut it in very short lengths with a small hand cutter. Clover cutters are made especially for this purpose. The alfalfa is then put into boxes with slatted covers from which the fowls can easily remove it.

Green alfalfa is especially valuable for young chickens kept in runs. It can be cut finely for them, or tied up in bunches and placed where they can pick it as they wish.

Some have succeeded with alfalfa ensilage, but there is considerable difficulty in keeping it in small quantities. Hay is a much better form in which to keep it. The best way to cure alfalfa is to partly dry it in the sun, then put it in small. heaps and cover with muslin hay caps. After three or four days open it to the sun for a short time and it is then in the best condition for storing for winter, provided the weather has been clear all the time.

For feeding, cut the hay with the clover cutter, steam it if you wish, and mix it with corn meal or some carbonaceous food-not with bran, as the alfalfa supplies the protein. Moisten the mixture with skim-milk and you have, when used with whole grains, shells, grit, etc., the most economical winter ration. New York.

T. A. TEFFT. PRESERVING EGGS ON THE FARM.

Water glass, chemically known as sodium silicate, continues in favor as the most reliable and satisfactory egg preservative. Its use upon the farm, where probability scouts sent out previous to the it is sometimes desirable to store eggs in swarm will lead the merry throng to a small way, is entirely practical, and while the average farm poultryman hesitates about storing eggs for home use, it not go direct without clustering they are is feasible for him, in a time of low prices such as the present, to at least put away the winter's supply for home cooking purposes, thus enabling him to market just that many more of his winter eggs. Re. peated tests have demonstrated that where water glass is carefully and correctly used eggs can be held for an entire year without losing any of those qualities needful for cooking purposes or

without developing flavors of a distasteful nature Full directions for preserving and stor-

sure a proper mixture of the two. A great deal of care should be taken in mixing the water glass and the water, and the more thoroughly this is done the better the chance of preserving the eggs. When eggs are to be preserved in several receptacles, the water and water glass should be mixed in each receptacle separately, for if they are mixed in one receptacle and poured into several, there is the liability of getting different percentwith the result that some eggs are likely to spoil.

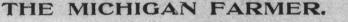
Into this fluid place the eggs, examining each egg to see that it is clean and not A good method is to tap two cracked. eggs together gently before putting them into water glass. If they are not cracked they will give a true ring, while if one of them is cracked the sound will be entirely different and the cracked egg can be discarded. Keep the eggs well covered with the solution by adding a small quantity of boiled water when necessary.

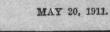
If several receptacles are used it is a good plan to mark the one bearing April eggs and those containing May and June These receptacles should be coveggs: ered to prevent evaporation of the water from the solution. Where the receptacles are not covered the solution turns milky or changes to a thick, white pasty mass, making it more difficult to take out the This does not, however, necessarily eggs. detract from the preservative qualities.

SUGGESTIONS ON HIVING SWARMS.

During the months of May, June and July, the bees in all properly managed hives become very numerous, and so crowded, particularly if the weather is hot, that they cluster outside the hives and hang in a large bunch from the entrance, unless more room is given by means of supers or by enlarging the brood-nest. This clustering outside is the usual and almost certain sign of swarming time being near. A swarm, composed of the queen and a few thousand workers and drones, leave the hive, and, after filling the air for a few minutes, generally form a pear-shaped mass on the branch of a tree close by. Unless the bee-keeper happens to be at hand the swarm may be lost to him, for in all new home which they have prepared in a hollow tree or elsewhere. If they do almost certain to do so after becoming settled, unless they are quickly hived into clean hive.

If the swarm is allowed to remain clustered for some hours, hiving becomes a difficult operation. Although, when swarming, bees are good-tempered, they soon become irritable if left in the sun; therefore, hiving should take place as soon as possible after the cluster has been formed. Many bee-keepers suggest the advisability of hiving swarms in the evening, but this advice refers to re-hiving eggs by this method, as followed at ing, because unless the swarm is secured





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the Storrs experiment station where wat- as advised above, it may, and most likely be closely adhered to:

A cellar is a good place to keep the eggs, though any darkened room where the temperature does not go over 60 degrees F. will do. A stone jar is prefer- able skill and some ingenuity must be able to other receptacles, for it can be exercised before they are safely secured. sealed and cleaned more thoroughly than Great care must be exercised to avoid most receptacles.

A five-gallon receptacle will hold about 15 dozen eggs. The preserving fluid itself should be made from clean water that has been boiled and allowed to cool. To every nine quarts of water add one quart of water glass, stirring thoroughly to in-

Illustrating the Fact that Swarms Sometimes Cluster in very Unusual Places.

er glass has been successfully used for will, decamp. After it is safely secured several years, are given below and should it is immaterial whether it is put into a modern hive then or in the evening.

Swarms settle in various places, from which they are sometimes dislodged with ease, while on other occasions considercrushing a single bee, for if the queen is killed the bees will return to the hive from which they issued, while if a worker bee is crushed, and the poison-bag ruptured, the smell of the poison will irritate the others and cause them to sting.

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

THE MAY PROGRAMS.

Suggestions for Second Meeting. "But when people get together, There's improvement in the weather, There's improvement in the climate of the soul." Select reading. Farm management. Instrumental music.

Instrumental music.

Home management. Report of "The One Improvement Club Chip basket, in charge of Assistant Lec-Music and reading, in charge of Ceres.

THE JUNE PROGRAMS.

State Lecturer's Suggestions for First Meeting.

"All green and fair the summer lies, Just budded from the bud of spring, With tender blue of wistful skies, And winds which softly sing."

her assistants was dressed to represent the historical character she described. The audience was asked to guess the names of the personages represented, the list including such as Joan of Arc, Harriet Beecher Stowe, Queen Elizabeth and Florence Nightingale. This feature of the program was put on without previous practice, each person preparing her cos-tume according to pictures found in books of history and literature. Another lecturer who was present told of how she announced "Some distinguished guests," and her helpers came forward representing such American characters as "our first ancestor," "a real Puritan," "a revo-lutionary soldier," "Columbia," "the boys of '61," "a Spanish war veteran," and "coming patrons." The last announcement ushered in a bevy of boys and girls, singing a national air and waving flags. In another Grange a good reader read "Zekiel's Courtin'," by Lowell, while a couple of young people acted the parts. In another, at the close of a song, an effective tableau, arranged by the teacher of the school, made the sweet words of the song more impressive. The "Story of Johnny Appleseed" lends itself to effective illustration, so do portions of "Hiawatha," "Miles Standish," and many others of our well-known and favorite poems. The Grange ritual is in itself a most fertile field for such illustrative work. All in all, this is a line of diversion worth following up. It acquaints members with bits of literature, and it makes a program feature which appeals to the eye as well as to the ear of the audience. JENNIE BUELL.

AMONG THE LIVE GRANGES.

A New One for Jackson County .-- A Grange, to be known as West Tompkins Grange, was organized at the Gould schoolhouse in the western part of Tompkins township, Jackson county, by Deputy day evening. April 25. The Wilde on Tues following officers were chosen: Master. Elmer Huxtable; overseer, Eli Bromley; lecturer, Ernest Fountain: steward, Fred Hopcraft; assistant steward, Lott Rew; lady assistant steward, Mrs. Guy Ferguson: chaplain, Hattie Huxtable: treasurer, June Griffith; secretary, Lloyd E. Schutt; gate keeper, Warren Schutt; Ceres, Mrs. F. J. Towers; Pomona, Ella Fountain: Flora, Ella Bromley.

To Encourage Corn Growing.-Resort Grange, of Emmet Co., desirous of awakening the same interest in corn growing that has been aroused in the care of or-chards and the growing of all kinds of fruits in the county, recently decided to conduct a corn contest this season. The s governing the contest are as No one may compete for the conditions

THE MICHIGAN FARMER.

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Just budded from the bud of spring, With tender blue of wistful skies, And winds which softly sing." Recitation. A good garden lowers high cost of living. Discoveries, given by five women. Reading, "The Unnamed Saints." Preparations for hot weather.—1. On the farm. 2. In the house. 3. In the dooryard. WARIED DIVERSIONS FOR YOUNG PEOPLE.—III. A few instances may be mentioned where efficient leadership has been ap-plied along the line of amateur theat-ricals in Grange program work. At a recent Pomona meeting, the lecturer of the entertaining Grange introduced "Ten famous women." The lecturer herself wore a college cap and gown and each of her assistants was dressed to represent the historical character she described. The audience was asked to guess the School Grounds more Attractive?" Bros. Frank Peters and Geo. Carpenter led in the discussion of the very live topic, "How can the Farmer get in more Close Touch with the Consumer?" Bro. Peters talking along the line of co-operative effort, and Bro. Carpenter advocating the establishing of a city market in Jackson. Hilledia Paterna Discuss Public Current

talking along the line of co-operative effort, and Bro. Carpenter advocating the establishing of a city market in Jackson. Hillsdale Patrons Discuss Public Ques-tions.—Hillsdale Pomona Grange met with Mosherville Grange on Wednesday, May & having a good attendance and a picnic dinner at noon. Parcels post, Canadian reciprocity and initiative legislation were all considered at some length. Bro. Kies held that the parcels post is greatly need-ed by all the people and voiced the opin-ion that the powerful influence of the express companies is alone responsible for the delay on the part of congress in granting this much desired legislation. He also spoke in favor of the reciprocity agreement, but was vigorously opposed by other members and it seems clear that a very large majority of the farmers of this section are bitterly opposed to the treaty, at least so long as manufactured articles are not placed on the free list along with farm products. Editor Gran-don, of Hillsdale, explained very clearly the theory of the so-called initiative, ref-erendum and recall as follows: "The in-titative is a privilege given through the enother at law which the legislature ref-vote for a law which the legislature ref-vote for a law which the legislature ref-vote for a law which the legislature ref-ving been presented to the legislature, then it becomes a law of the state. It was initiated by the people, carried by the people and cannot be vetoed either by the fegislature or governer. The referendum is only an extension of the same princi-ple, except that it applies to bills passed by the legislature and signed by the gov-ernor. If

COMING EVENTS.

Pomona Meetings.

Lenawee Co., with South Dover Grange, Thursday, June I. Lecturers' conference conducted by State Lecturer. Eaton Co., with Needmore Grange,

Eaton Co., with Needmore Grange, Wednesday, June 7. Kent Co., with Thornapple Valley Grange, Wednesday, June 7. State speak-er, Mrs. E. J. Creyts. Newaygo Co., with Lincoln Grange, Wednesday and Thursday, June 14 and 15. Calhoun Pomona and Lecturers' Con-ference, at Battle Creek, Thursday, June 8.

ts of June 8. Dennona and Lecturers' Con-The ference, at Otsego, Thursday, June 15. e as Osceola Pomona and Lecturers' Confer-the ence, at Reed City, Friday, June 16.

FARMERS' CLUBS

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Associational Sentiment .-

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

YEARLY PROGRAMS.

The Hadley and Elba Club.

The latest of the yearly programs of local Clubs to reach the editor's desk is that of the Hadley and Elba Club, of that of the Hadley and Elba Club, of with song by the Club.—Mrs. O. S. Howe, Lapeer county. This is a neat booklet printed on a good quality of book paper. The cover page contains only the name of the Club with the year for which the program is to serve. In addition to this information, the title page gives the date of the organization of the Club, which was 1899. On the next page appears a schedule of the meetings of the Club, which which are held on the third Thursday of each month. From October to April, in-clusive, the meetings begin at 10:30 a. m., while from May to eptember the meetings are called at 1:30 p. m. The music for each monthly program is ar-ranged for by a committee. On the op-posite page is printed a list of the officers of the Club. The next page is devoted to the order of business for the Club meet-ings. On the succeeding pages appear the programs for the several months of the fiscal year, which begins with Feb-Lapeer county. This is a neat booklet the fiscal year, which begins with February, one page being devoted to the program for each month. The farm homes of the members are named, and the farm name appears in conectionn with that of the host for each month. Roll call is answered by a variety of appropriate responses, a different kind of response being provided for each meeting. The questions for discussion are both interesting and practical, and include topics for the ladies as well as for the gentlemen members of the Club for a large portion of the year. Special feature meetings are numerous, including Children's Day in June, Pioneer Day in July, the meeting held on the 4th, a union picnic in August with Lapeer County Farmers' Picnic, and a Club fair in October. A feature of the programs worthy of special mention is the discussion of all different kinds of farm stock, including poultry, at the February meeting, each different kind being assigned to a separate speaker, while alfalfa is a special topic for discussion in May and apples in November. and at the December meeting the topic for general discussion is "My Greatest Mistake of 1911."

CLUB DISCUSSIONS.

Pass Resolutions Opposing Canadian Reciprocity.—The Hadley and Elba Farm-ers' Club held their last meeting at Maple Lawn, the home of Mrs. and Mrs. George Schanek, April 20. The roll call revealed many "Things we can get along without." A reading by Cassie Mott created a spirited discussion on "Economy; what it is: how to practice, etc." Mrs. Lewis Riley proved most conclusively that the college bred woman has a decided advan-tage over the less educated woman, and that good common sense is an essential factor in all walks of life. Economy, self-control, system and centralization of thought are some of the lessons learned in college. Owing to a misunderstanding

sand Years." Prayer by Rev. E. Morri son. "What does a farmer need most, more land, more labor, or more educa-tion?" This subject was led by A. T. Shepard and was ably discussed by a large number. It was thought it required more education to be a successful farmer. Certainly, if they had more land they would have to have more labor. Music, recitations, songs and a select reading by Mrs. Kate Cox, "The golden age of America," followed, Very many helpful thoughts were contained in the paper, which was fully appreciated. After a song by the Club, "America," the Club adjourned to meet at the M. P. church the fourth Saturday in May.-Mrs. John Hill, Cor. Sec.

the fourth Saturday in May,—Mrs. John Y Hill, Cor. Sec.
Add Ten New Members.—The Clover Leaf Club met at the home of Mr. and Mrs. O. S. Howe, with a good attendance. Our president, Walter Hazelwood, being sick, the meeting was called to order by our vice-president, Mrs. E. Hallock. After the order of business was over, we enjoyed an interesting Easter program. We also took in ten more members and we feel encouraged. Discussion on plowing for spring crops. Adjourned to meet April 22, with Mr. and Mrs. B. Camfield. We find it more interesting to meet twice a month. Meeting was called to order by the vice-president, our president not being able to attend, sent his regrets and hopes to be with us May 10. After the order of business a fine program was rendered. A discussion on horse play at weddings, led by Mrs. J. Wheater, drew out many incidents and caused a lively time. Also a discussion on seed corn testing and selection. Meeting closed with song by the Club.—Mrs. O. S. Howe, Cor. Sec.

Line Church. Discuss Co-operation.—Genoa Farmers' Club was entertained by Mr. and Mrs. John W. Lawson, Thursday, April 20. It being a very busy time among farmers the attendance was not as large as usual but a jolly company met there and en-joyed everything, from pork and beans for dinner to the last thing on the pro-gram. A. J. Meyer was with us after six months' absence and gave a very inter-esting talk that was much enjoyed by all. A good literary and musical program was rendered. With an excellent talk on co-operation among farmers by A. J. Meyer, a couple of songs by the Club and a number of good questions, we had a most interesting program. Elect New Officers,—The Norvell Farm-

a couple of songs by the Club and a number of good questions, we had a most interesting program. Elect New Officers,—The Norvell Farm-ers' Club met at the pleasant home of Mr. and Mrs. V. E. Roberts, April 29, with a good attendance. The forenoon session resulted in the re-election of the old officers for another year, C. P. Holmes, president: D. S. Fuller, vice-president; Mrs. Clyde Beckwith, secretary; F. C. Beckwith, treasurer; Mrs. Wm. Ray, chairman of menu committee. Lewiss Kimble and D. S. Fuller were appointed on the program committee. After an en-joyable repast the meeting was called to order by President C. P. Holmes and a good program was rendered. Roll call was quite well responded to with current events, interest being shown along the line of pure food laws, parcels post, locat option, bills in the legislature. The select reading by Miss Elma Holmes, bearing upon arbor day, was full of sentiment and called forth some discussion. The reci-procity bill was dwelt upon and Dr. E. N. Palmer's idea seemed to be the senti-ment of many, that no one could tell the also thinks the American people and the American Farmer can get together under a low tariff or under a high tariff but that we should let well enough alone. More money is invested and prices are better when things are settled. Cold stor-age was spoken of and nearly all agreed with Mr. Halladay that it is a good thing for the farmer though much abused. D. S. Fuller and W. Lowry think there should be some bill passed to regulate and prevent the holding of products past the point of usefulness.

self-control, system and centralization of thought are some of the lessons learned in college. Owing to a misunderstanding J. S. Smith was not present and the re-mainder of the afternoon was devoted to the question box. The Club voted to reaffirm their attitude opposing the pend-ing reciprocity treaty, and to implore our Michigan United States senators to vote against the measure. The Club also took action regarding the pending cold storage bill and elected C. P. Johnson and Lewis Riley to draft resolutions requesting the extension of time limit. All joined in singing and adjourned to meet at the Baptist parsonage with Rev. and Mrs. McLeod, May 18.—Mrs. C. P. Johnson, Cor. Sec. The Farmer's Need.—The April meet-The Farmer's Need.—The April meet-ing of the Assyria Farmers' Club was our number, Miss Mable Curtis, a fair pleasantly entertained at the Base Line young flower in the morning of life, is church, 40 being present to partake of gone from us. Twice elected recording the most excellent dinner and listen to a secretary and serving faithfully, we shall fine program. President Mayo called to miss the bright spirit from our midst.— order at 2:30. The Club sang "A Thou-

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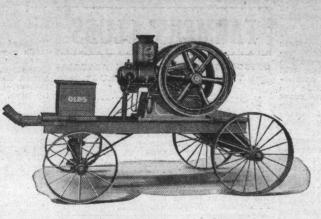
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