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FARM NOTES.

Treating Seed Wheat for Smut.

How is seed wheat treated with copper-sulphate? Is there a better treatment? If so what is it?

Washtehaw Co.

E. W. M.

in treating seed oats for smut is one pound to ten gallons of water, grain to be thoroly sprinkled with the solution. For the treatment seed wheat stronger solutions are recommended, ranging from five to ten gallons of water to one pound of the blue vitriol, according to the source of the advice. The formalin or formaldehyde treatment however, very largely displaced the earlier methods advocated for the treatment of seed grain for smut, owing to the fact that it has no poisonous effect on the which is an objection with some of the other treatments advo-This method of treating the seed grain has another strong point in its favor, in that it involves less labor than any of the other meth-

ods which may be employed. The material for this treatment, which described is more generally favored. is known as formalin, or 40 per cent mixture to treat a bushel of grain, so grains. This treatment is given by soak-corn, and from this experience was rather fits in well with the regular crop rotathe amount of solution required can be ing the grain in cold water for from four enthusiastic about the possibility of usclean floor in piles of convenient size for from five to ten minutes. However, field to this crop for a series of years, crop in Michigan has demonstrated that to be thoroly stirred and mixed. Then the formalin treatment will give an However, the seeding of alfalfa in stand-there seems to be no best season of the

ring thoroly to the bottom as long as the liquid is absorbed. After an interval of a few minutes, or after all the piles have been treated, repeat the operation and repeat again if necessary to get all of the kernels thoroly wet. At least three quarts of the mixture per bushel of grain should be absorbed and one gallon will not be too much. The grain should then be covered with a canvas for about two hours, as the formaldeliquid, and the fumes from its evaporation will aid in the killing of the smut spores. The seed may be all shoveled into one pile to facilitate covering. After the canvas is removed the grain should again be shoveled over at intervals to dry it out, when it will be ready for sowing at any time. Care should be taken in handling the

latter with the solution.

tion the shovels, the grain bags and the due to the presence of smut and is gen- to build such hopes upon. It must be drill should be disinfected by soaking the erally conceded to be satisfactory and remembered that alfalfa is difficult to get former and spraying or sprinkling the the best available treatment to use un-established for the first time upon most If preferred, der average conditions. The saving is of our soils where it is given a clear the grain may be dipped in the solution very material in any case where the field and the best of conditions. Relaby immersing it in the bags in a suitable smut spores are present in the seed, and tively it is nowhere near as sure a crop The copper sulphate treatment for vessel for ten minutes, after which it they will generally be present in suffi- as our common kinds of clover, hence smut is not largely used at the present should be allowed to stand in the bags cient numbers to make the treatment a one could not reasonably expect better time. The formula recommended for use for two hours and then spread out to profitable precaution, even where the success in seeding alfalfa in corn than

could be expected with the common clovers, and these cannot be so seeded with any degree of certainty that a good stand will be secured. When the conditions are just right, when there is plenty of moisture and good weather for the germination of the seed and the development of the young plants the plan works out finely. We have seen many very fine seedings of clover that were secured by sowing the seed in the standing corn at the last cultivation. But we have observed more failures than successes from the use of this plan. If there is not sufficient moisture to germinate the seed quickly or to keep the young plants growing rapidly after they come up, the stand will be poor and the plants will go into the

dry, but sprinkling or spraying as above seed appears to be free from the fungus. winter in poor condition to survive its rigors. Or if there is a heavy rain just after the seed is sown it may be washed badly on rolling ground and a poor stand secured for this reason. It is not a plan which is a safe dependence, altho in a season when all the conditions are right it may be profitably employed in case it

The same fact might obtain in the sprinkle the solution on these piles, stir- economic degree of protection from losses ing corn is too uncertain a proposition year to sow it, and in a season when all

conditions seem to favor the plan it might be profitable, and would certainly be an interesting experiment to try. The plan would have the advantage of saving a season's time over most other methods by which alfalfa is seeded, and the weeds would certainly bother it less in it gets sufficient growth to live thru the winter and make an early and vigorous start the following spring. But it be remembered a comparatively should that thick and even stand of alfalfa is essential to the highest success with the crop, and that plenty of seed should be used if it is sown in the standing corn as some of plants would be likely to be destroyed in harvesting the corn.

While alfalfa culture promises great things for Michigan agriculture, it is still in the experimental stage, and the farmer who tries it out should apply to it a de-



Farm Home of George Kent, Huron County, Mich., who Discusses the Automobile Question on Page 146.

This form of treatment has proven formaldehyde solution, can be obtained uniformly successful for the prevention at any drug store and is comparatively of stinking smut or bunt in wheat, from cheap. It should be mixed with water which the greatest losses occur, but it at the rate of one pound to 40 gals. of has not proven as effective as the hot water. It takes about one gallon of the water treatment for the loose smut of ported success easily figured. The mixture having been to eight hours, then dipping it in hot ing alfalfa in the regular crop rotation provided, place the grain on a tight, water at a temperature of 130 degrees F. as clover is used, instead of devoting a seeding of alfalfa. Experience with this

Seeding Alfalfa in Corn.

Have you any one's experience seeding to alfalfa in the last cultivation of corn? What would be the objection to this plan? Washtenaw Co.

Some years ago one correspondent rewith seeding alfalfa in



treated grain that it does not again become innot again become infected, and as a precau
Harvest Scene on the Farm of Francis Walker, of Lapeer County, Mich.
Twenty-nine acres of rye, 17 acres of which was in rye last year, threshed 700 bushels. Mr. Walker believes the good yield due to the fact that the field was top dressed with stable manure and believes the proper place to apply manure is as a top dressing on fallow ground intended for winter grains.

gree of that and judgment which will not let any air out. My experience in cattle tramping over new seeding. Our probably not be required when we have the cost of running a small car is: On a seeding is splendid this year. We have become more familiar with the require- good, hard level road, one gallon of gas- 30 acres of as fine a catch of clover as ments of the crop for successful growth oline will run me about 20 miles; if the I ever had in the world, and it is going in our state and when our soils have be- wind is behind, pushing me along, I to get so large that we will have to clip come generally inoculated with the bac- can go farther. It all depends upon the it with the mowing machine. This field teria which find a welcome home in its labor your engine has to do, and one is not fenced so that we could pasture roots and which seem to be so vitally gallon of Jubricating oil will last about it, anyway. If it was I wouldn't have the essential to the profitable growth of the 250 miles. A larger car, of course, costs cows turned onto it for anything. I am

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IS THE AUTOMOBILE PRACTICAL FOR THE FARMER?

Replying to your request for a letter upon the practicability of an automobile for the farmer, will say I will do my best to set forth my ideas upon the sub-Having purchased an auto and run it over 3,000 miles I can say I have had some experience, at least. Now as to whether it is a practical proposition for a farmer to own an automobile depends so much on circumstances that it is hard question to answer in an offhand One might answer as easily whether it is practical for a farmer to put \$2,000 into a house to live in when could get along with one that cost \$1,000 and put the other \$1,000 away, or dust all behind, with the pleasurable senis it practical for a farmer to own a nice horse and carriage to drive when he could get along with the draft horses and wagon. The \$2,000 house has many found in a carriage, and I might add the advantages and conveniences over the \$1,000 house that make life worth living, so has the driving horse and carriage over the lumber wagon and work team, And while I do not wish to deteriorate against the usefulness of the horse, for they have always been my best crop on the farm, I must say the automobile has can figure on going at least five times a great many advantages over the horse, as much. You may even hunt up exin a country that is suitable for an automobile to run. I should say to the farmer that lives where most of his driving would be in a hilly, sandy country, he had better leave them alone, at least until the road system has been perfected or the auto improved more. To be sure, automobiles will go thru some very bad roads and climb hills that will surprise one, but it is a hard strain on them and it costs much more to run them. Besides, there is no pleasure in riding when you must be using all your power to get thru. They would wear out too fast, and they cost a lot of money, so I don't think farmer to own one under those circum-

On the other hand, the farmer that lives where there are reasonably good even tho it be moderately hilly, providing the hills are hard, then there is a great deal of enjoyment and satisfaction in having an automobile, if not economy.

In regard to the cost of running and up-keep of an auto depends largely upon the roads and the man that runs it. Some men wear out a grain binder in five years, others make it last ten. In a hilly country three horses are used on a binder but in a level country two horses often do the same work.

It is the same with an auto. One man will run it for all there is in it and another will be careful and make it last twice as long. On the level, hard road it will fly along at a great speed with one-half the gasoline that is required on a heavy, hilly road. My experience was Living in Huron county, on a main traveled road that goes up thru the center of the thumb to Port Austin and Pt. Aux Barques, summer resorts where one can see autos of all descriptions going by most any hour of the day, I easily caught the auto fever and purchased a two-cylinder 10 horse power runabout, after a careful study of the different kinds, and began operations. Never having had any experience with gasoline engines, I had it all to learn, and, like all beginners, had some reverses until I understood my machine, but had less trouble than I expected, and I can say this much for the reliability of my went thru four counties, and in one place had to run over about 10 rods of crushed I believe it would do more injury than 1 stone that had been drawn into the road would get benefit out of the grass they very sharp, cut the tires some but did seeding I am absolutely opposed to the

more to run. My car weighs 1,100 lbs. sure that it would be the poorest kind and is not so hard on tires as a heavy of economy. While they would get con-

different statements in regard to costs, but I am simply speaking for myself and cause they would injure many of the my car. I am not doing any advertising plants by tramping on them that otherstunt, for I shall not mention the name of the makers

As to its advantages over the horse, it simply cuts distances into halves and during a shortage of pasture than to turn quarters. The man who lives five to ten them onto the new seeding. It is wrong miles from town is within a few minutes reach of it,

In fact, he can be there by the time he would have his horse and buggy ready to go. This might mean a great deal in case of sickness or some other emergency. On a hot, dusty day one can ride along perfectly cool and the with the ease and comfort that is not auto don't tire, don't sweat, and doesn't need a fly net.

And now as to the question of economy compared with the horse. I think, mile for mile, they will not cost as much, considering first cost and maintenance, but on the other hand, Brother Farmer, you cuses to go, and you may get as absurd did not wish it to go to seed I turned my as to think your wife is a dear old girl cattie and sheep into it thinking they when she tells you she is all out of tea and wants you to take her to town. She will catch the auto fever as well as yourself. She may kick on your using tobacco or spending money otherwise but she won't say anything about your gasoline bills. So there is the economy side of it. But, summing up the whole thing, they are a great convenience, the same as the rural telephone, the rural mail delivery, the daily newspaper, etc., that the farmer now has. They all help to bring the farmer out of his isolation and make his vocation one to be desired, and his life worth living.

GEO. KENT. Huron Co.

PASTURING MEADOWS AND NEW SEEDING.

A subscriber writes that he does not see how he can follow my advice about pasturing meadows and new seeding, because his pastures are short and the only way he sees in getting thru the summer is to turn his cows into the meadows and if they get too short later on, turn them into the new seeding, which is fine. Now he certainly can get along without doing this, if he believes it is a bad practice, and believes it thoroly enough; because I do not do it and I am also short of We have to feed the cows hay now twice a day and a grain ration once a day and, in fact, they get very little the present time from the pasture. We have one meadow that is so situated that it is fenced so that we could turn them in, but I will not do it because I am convinced that we would lose money in the long run. Now, in the first place, the grass has made growth enough so that there is pasture enough to amount to very much, it will pay to cut that and draw it to the cows rather than to turn the cows in and let them eat it eff, because they will waste about half of it. They will tramp it into the ground, much of it will be soiled by the droppings of the cows, so that they will not get over 50 per cent of it, probably. Now, we can cut this, cock it, draw it in and feed it to them and it is eaten up, every bit of it. Of course, it takes a little prove, to speak just what I think. I do not set to say when that man, J. D. feed it to them and it is eaten up, every auto, that I have always went where I started for and come back again on my own power. I got into a mud-hole once and was about half an hour getting out but would have gone thru it if I had had chains on my wheels. There have been times after a heavy rain that I use a horse to drive with instead of taking the auto. It is possible but, not always practical, to run when the roads are slippery, especially on clay roads. I have never yet known anything about tire to the started for and come back again on my labor to do this but it can be done quite rapidly. I am positive that I will get more out of it by feeding it in the barn than I will by turning the cows in and letting them help themselves. This is letting them help themselves. This is the meadow containing about 19 acres horse to drive with instead of taking the auto. It is possible but, not always practical, to run when the roads are slippery, especially on clay roads. I have a fine growth. If we should get aonther rain to help it along, it will make quite a trouble, never had a puncture, altho I trouble, never had a puncture, altho I cutting for a second crop, and we shall have made trips as far as 300 miles and probably cut it, but I would not want the cows tramping over this field this fall. and had not been rolled down. It was would eat. Now when it comes to new

siderable to eat off this new seeding of Other men that own autos may make clover, I am sure that in the long run we would lose by turning them in, bewise will survive and make good, thrifty plants next year. I would rather buy hay, and grain, too, to feed the cows and you will eventually lose money by doing it.

COLON C. LILLIE.

EXPERIENCE WITH ALFALFA.

In the first place I made too mistakes in sowing with grain and of course made two failures in getting a stand that suitsation of having a power carrying you ed me. For my third endeavor I selected along that responds to the lightest touch a piece of ground which had been in board a piece of ground which had been in hoed crops for a number of years and heavily manured each year, plowing it in April and keeping it cultivated till July, when I seeded it at the rate of 20 lbs. per acre.

On the night following my sowing we got a very heavy shower and I got a magnificent stand. On part of the field I had sown, with wheat, red clover the fall before. So that in the fall after sowing my alfalfa the red clover was knee high and in full bloom, and as I cattle and sheep into it thinking they would not trouble the alfalfa, but I found that I had made a great mistake as they fell upon the alfalfa and eat it nearly into the ground. I gave it up, thinking it was entirely ruined, but the next spring it came up as green as a bed of lettuce and since then, now five years ago, I have mown from two to three crops each year, of the very finest of hay and the stand of alfalfa is now as good as ever and all without being manured or fertilized in any way.

A. C. GOWDY. Oceana Co.

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BREEDERS' PROBLEMS.

Selecting the Ram.

culling of the breeding flock so as to insure a greater profit from this branch of the farm on which sheep are kept. After this culling is done, and the flock of ewes is made as uniform as possible, consistent with the retaining of the best producing females, the selection of the ram to which they are to be bred is a matter of the next importance. A good many owners of sheep do not give this important matter sufficient consideration. It is often said that the sire is half the flock, but where the flock is one of grade ewes, he may become much more than half the flock if he is a pure-bred and prepotent individual. And no sire ought to be used on any flock that is not pure-It might be added with equal bred. force that no sire should be used that is not a prepotent sire, but, unfortunately, a certificate of registration does not insure prepontency with anything like the certainty that it insures the pure breeding of the individual to which it relates. But the pure-bred sire that has been bred for generations along certain well defined not only in America, but both Australia lines, and that has the concentrated of many prepotent sires in his is far more apt to measure up to the highest requirements in this respect check its increase I know of no better than is the sire of mixed breeding, which has neither type nor consistent breeding back of him. Many sheep owners, and them up while treating the sheep, burnespecially owners of small flocks, hesitate to pay the small additional price required to purchase a pure-bred sire, but if they would stop to consider the matter a little carefully they would not hesitate to thirty feet and I have seen them much make the additional investment. Even if the ram is not bred to more than 25 or 30 eyes, the better quality of the first lamb crop will more than repay the extra cost of the pure-bred ram, and the usually pale in the skin and the mucus additional gain derived from him in future years, as well as his additional value when sold will be clear profit, to say nothing of the improvement which may be brot about in the flock by retaining the ewe lambs for breeding purposes.

Having determined to buy a pure-bred ram, the first essential step has been taken. The question of breed will next This will, of course, depend somewhat upon the type and breeding of the If an attempt is to be made to improve the flock by the keeping of the ewe lambs for breeding purposes, the ram should be of a breed that will blend with or readily build upon the foundation stock for such improvement. In other words, a violent cross should not be made use of for this purpose, altho it is sometimes useful for special purposes as the success in raising feeding lambs from merino ewes bred to middle wool rams attests. But while these made excellent feeding lambs, they would not have made good foundation stock upon which to build up a flock. For this purpose it is better to select a ram from a breed which is not widely different in type from the ewes upon which he is to be bred. Then, when the breed is once selected, the wise farmer will stick to it, and not be continually changing, using a ram of one breed this year and of some other breed the next. This will lead to nowhere, so far as the establishment of type is concerned.

The breed having been selected, the choosing of the individual demands the careful consideration of the flock owner. This should be done with a full knowledge of the shortcomings of the ewes upon which he is to be used, and he should be selected with a view of overcoming these in the next generation. Here the advice of the breeder from whom he is purchased will be of value, and should be secured. But independtermined in his own mind some of the more essential points which are to be desired in the sire to be purchased. Of course he does not need to heed the fine points in breed type as closely as the breeder who is purchasing sires to use on pure-bred ewes, but he should have a well defined idea of the kind and type of sheep which he needs. As in the selection of ewes, the first requirement is health and vigor. The conformation should also be good, and compactness and strength, with good carriage, should be sought for, rather than size without these important characteristics. mating corn to be worth 40 cents per Then, when the ram that suits is found,

larly anxious to sell, as will generally be to indicated by the price, but if he is the best adapted to the use for which he is needed the additional investment will be In the last issue we commented on the a profitable one. The best is none too good, even for use on a grade flock, and at anything like a fair price will prove the cheapest in the end.

TAPE WORMS IN SHEEP.

I am losing lambs, as J. F., of Hillsdale is, only we find tape worms in some of them and we also find some of them are troubled with nodular disease. What strikes me as being rather peculiar is some of the lambs die on a full stomach; but the small intestines are empty, except that the bowel is fairly well filled with tape worms. We have taken nearly 100 feet out of one lamb. Can you give a remedy for such worms and where do they come from? The sheep seem to be bloodless. This is a matter which concerns me and it must interest every sheep breeder in my locality and perhaps other parts of the country where your paper is read, therefore I hope you will answer my letter fully and enlighten me on tape worms for I can't save my sheep.

Lenawee Co. S. H. Bachelder.

Taenia Expansa is the scientific name for Tape Worm and, strange to say, it has caused great loss to sheep raisers. and Germany, also in other countries. Its cystic form is not by any means too well understood. However, in order to plan than by watching what sheep pass the ripe, detached segments, shutting ing not only the worms that are expelled but all excrement which they pass when the vermiflage is given. The tape worm of sheep varies in length from eight to longer; they are a dirty white color, the beak is about one-twentieth of an inch wide and the tail nearly a half inch wide, but flat. Sheep that have them are membranes are white instead of red. They generally cause scouring, much emaciation, great weakness and sometimes death. Now in order to obtain the sheep should be fasted for 15 hours. I have obtained the best results by giving Kamala, following it a few hours later with a brisk dose of epsom salts or fence directly to the corn. milk gives fairly good results and I have field and, oh! how they did go for it. obtained excellent results by giving ething three drams of kamala in 3 or 4 ozs. and milk, giving with it a teaspoonful of in September. for if poured down rapidly it might get fact was especially noted. into paunch and fail to do much good; of a reliable druggist or you will fail to W. C. FAIR, V. S. of worms.

CORN VERSUS OATS AS HORSE FEED.

The Ohio Experiment Station recently conducted some experiments to test the widespread belief that oats are superior to

price stand in the way of the purchase. were made, it was found that the average If the flock owner proves to be a good cost of food per hour of work was 3.3 judge, the sheep which he will select will cents for the corn-fed horses and 4.54 be one that the breeder is not particu- cents for those fed oats. The use of corn the exclusion of other grain for a period of 48 weeks was not found detrimental to the health of work horses, and they endured hard work during the hot weather as well as those receiving oats. When mixed (clover and timothy) hay was fed to mature geldings at general farm work, ear corn was practically as efficient, pound for pound, as oats. drop in weight of the corn-fed horses coincident with the beginning of the use of shelled corn indicates that ear corn is to be preferred above shelled corn for work horses.

HOGGING DOWN CORN.

Of late years this method of disposing of a portion of the corn crop, has been becoming extremely popular. Instead of being the lazy man's way it is fast becoming the method of our most progressive and advanced farmers. By its use, corn is converted into pork in the easiest and most sensible way that can be used. Last year we had a carload of pigs which we summered over on clover pasture, together with a small amount of ear corn. In the bunch were the spring pigs from eight sows which had also run on the clover. As soon as the green corn was ready to feed we began to cut a small amount each day and to give it to the hogs. It was thoroly relished by them, being eaten until hardly the bare stalks remained. Not only did it make a good feed but also got them so thoroly accustomed to the green corn that we felt that there was absolutely no danger in turning them into the corn field.

We have forty rods of 30-in. woven wire hog fencing. This we take up and move around whenever we please. is a very easy matter to take it from the posts, roll it into a bale or roll, and to put it on a sled. We just keep the stretcher attached; eight or ten posts suffice for the forty rods. We don't dig the holes very deep, and then the posts are set in with the little end down in order that they may be pulled out easily. Two men can change it in a half day.

The smallest field we had was a piece best possible results from treatment of twenty acres. We hated to turn the bunch in the twenty, so we fenced off an eight acre piece. A few days ago, one of our neighbors spoke of wiring the A strip of castor oil. Oil of turpentine given in rape was sown along one side of the

The hogs were given the run of a erial extract male shield fern. Try giv- twenty-acre pasture lot in which there was plenty of shade. In it was a large linseed gruel or milk. This is a full dose well from which we got water. We had for an adult sheep, if the bowels do not taken care to put a few loads of sawdust move freely give two or three ounces around the trofs in order to prevent the of castor oil four hours after the kamala hogs from making unsanitary wallow was given. If this dose fails to bring holes. That is the best remedy for that results give one dram male shield fern trouble which we have yet found. A in three or four ounces castor oil and if supply of good water is an imperative it is not convenient try the turpentine necessity to a bunch of fattening hogs

powdered areca nut, and no harm to add We were surprised at the regularity of half a teaspoonful oil male fern, giving the hogs' feeding habits. From eight in it in four ounces of sweet milk or raw the morning until four at night it was linseed oil. Remember when giving sheep almost impossible to find a hog in the a drench of this kind they should be field. Also we were surprised at the way allowed to stand on their feet in a natu- in which they cleaned up the field, for ral position, the head should be raised there was actually less corn left on the only high enough for the medicine to ground by the hogs than is usually left run into back part of mouth, the com- when the crop is cut with the binder. mon custom of pinching the throat is That being our first experience, we exnot only wrong but dangerous for it in- pected that a great deal would be wasted, duces coughing, some of the medicine but we were agreeably surprised. Later may go down the windpipe into the lungs, in talking with others who have had the causing great irritation and bringing on same experience we have found the same bronchial pneumonia, followed by death. to be true. In some reports made by The medicine should also be given slowly the Department of Agriculture, that same

Of course, they did not clean up all the but be sure and not hold the head too fodder but it was not badly mussed. Inhigh when giving the medicine. A short deed, it was in such shape that when the time ago I gave treatment for stomach sheep were turned on it they ate all but worms. You no doubt clipped from the the bare stalks. We cut these up and paper what I wrote and have it on file burned them, plowed the eight acres in ently of this the purchaser should have for future reference. Just a word in studied the question of type and have deconclusion, be sure and purchase drugs of a reliable druggist or you will fail to out on the corn stubble. The whole piece get satisfactory results in the treatment of worms.

W. C. FATE V. S. that the eight acres yielded fully eight or ten more bushels to the acre than the other.

We that the field would have yielded about 35 cwt, of corn to the acre. The hogs brot over \$33 per acre for their gain. Counting husking at three cents per basket, that makes \$2.63 saved on an acre, other grain as a feed for horses. Six cutting at \$1.50 per acre and you can mature grade Percheron geldings were see how we received the equivalent of fed on a basal ration of clover and tim- about \$37 per acre for our corn so fed othy hay, three receiving oats and three without the bother and expense of crib-corn as a supplementary ration. Estibing and hauling it to the elevator or the equal bother of feeding it out. Several bushel, oats 30 cents per bushel, and hay experiments conducted under the superit is a mistake to let a few dollars in \$8 per ton, at the time the experiments vision of some of the separate stations

Warranted to Give Satisfaction. Gombault's **Caustic Balsam** Has Imitators But No Competitors.

Safe, Speedy and Positive Cure for Curb, Splint. Sweeny, Capped Hock, Strained Tendons, Founder, Wind Puffs, and all lameness from Spavin, Riggbone and other bony tumors. Cures all skin diseases or Parasites, Thrush, Diphtheria. Removes all Bunches from Horses or Cattle.

As a Human Remedy for Rheumatism, Sprains, Sore Throat, etc., it is invaluable. Every bottle of Caustic Balsam sold is Warranted to give satisfaction. Frice \$1.50 per bottle. Sold by druggists, or sent by express, charges paid, with full directions for its use. [37 Send for descriptive circulars, testimonials, etc. Address

The Lawrence-Williams Co., Cleveland, O.









If you have never used Dr. Fair's New Worm emedy, send 4c for a 25c pox-12 doses.

60 Separate Doses Mail \$1.00 DR. FAIR VETERINARY REMEDY CO., W. C. FAIR, V. S.

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HARRIS STEEL CHAIN HANGING **Woodlined Stanchions**

And Sanitary Pipe Stalls
make the most sanitary, strongest
and neatest appearing barn equipment. Send for descriptive circulars and get our prices before you
equip your barn.

THE HARRIS MFG. COMPANY, 816 Cleveland Ave., Salem, Ohio.



show profits, or rather returns, ranging from \$31 to \$37 per acre.

We have become so enthusiastic that we have, together with our own, gotten a bunch of 175 hogs which on April 19 weighed 97 lbs. apiece. During the summer we have lost a few but I think that when the corn is ready we will have some 170 to turn into it. We have been giving them four sacks of ear corn every day, and now we are feeding the green corn rather heavily. We have forty acres of corn in which we sowed rape at the last cultivation. This, together with the corn, will produce a great amount of feed. Whether we will make or lose on the venture, I cannot say; but

any way, we feel optimistic. CLYNE A. WAUGH. Ohio.

VETERINARY

CONDUCTED BY DR. W. C. FAIR, CLEVELAND OHIO.

Advice thru this department is free to our subscribers. Each communication should state history and symptoms of the case in full; also name and address of writer. Initials only will be published. Many queries are answered that apply to the same aliments. If this column is watched carefully you will probably find the desired information in a reply that has been made to some one else.

Indigestion—Worms.—I weaned my 4-month-old colt last week, since then he has begun rubbing his tail against the side of the building. I am inclined to believe that he is troubled with worms. S. W., Fennville, Mich.—Mix equal parts ground gentian, ginger, quassia and bicarbonate soda together and give your colt a teaspoonful at a dose night and morning for two or three weeks.

Grub in the Head.—Stomach Worms.—My sheep have been dying off, both old and young, without us knowing the cause of their death. Some of them have a discharge from nose; have applied pine tar, thinking it was a grub in the head. My neighbors tell me they are losing both sheep and lambs and they are not able to tell why they should die. F. T. P., Galien, Mich.—It is possible that some of your old sheep may have grub in the head at this season of the year; however, it is not a very common ailment for nearly all the grubs have been dropped out of the head by this time or have produced death in the sheep. When a sheep dies, cut the head open and you will soon ascertain whether grubs have caused their death or not. I am more inclined to believe that your sheep die the result of nodular disease and your samos use from scomach worms. Give your lambs a teaspoonful of turpentine in a cup of milk or in 2 ozs, of sweet old and your older sheep will be benefitted by the same dose. Also give your sheep some of the tonic and condition powder recommended for stomach worms in this paper.

Partial Dislocation of Stifle Joint.—I would like to know what alls my 2-vear—

by the same dose. Also give your sheep some of the tonic and condition powder recommended for stomach worms in this paper.

Partial Dislocation of Stifle Joint.—I would like to know what ails my 2-year-old filly. At times her hind leg locks as if the joint was stiff; when she gets started she appears to travel all right, but she makes quite a fuss when first steps are taken then suddenly the leg jerks and she travels good. Will it do her harm to work? C. G., Constantine, Mich.—All the trouble is in stifle joint and if you will blister with cerate of cantharides once a week she will soon recover. Moderate work will do her no harm and the hind feet should be kept three inches higher than fore until she gets well; this can be done by filling back part of stall with clay.

Bruised Throat and Neck.—I have been quite successful in treating my horses by following the advice you have given others thru the Veterinary Department of the Michigan Farmer, but now I ampuzzled to know what to do for a two-year-old filly. She met with an accident last spring, by putting her head thru a fence and getting fast—after being released her neck and throat swelled considerable. I applied some liniment a few times and thot she had recovered; however, some time later I noticed her glands were swollen, then I applied iodine ointment. This treatment reduced the swelling some, but failed to effect a cure. This is a valuable filly and any advice you give will be highly valued by me. W. H. Y., North Star, Mich.—I am inclined to believe if you will give your filly 1 dr. iodide potassium at a dose in feed or water twice a day it will soon make an impression on the bunch you speak of; especially if it is a glandular swelling. However, if it is a fibrous er muscular thickening it may remain swollen for some time. Apply one part red iodide mercury and eight parts lard once or twice a week and this ointment should be well rubbed in. Of course, you understand this medicine will blister slightly, consequently you must use your own good or twice a week and this ointment should be well rubbed in. Of course, you under-stand this medicine will blister slightly, consequently you must use your own good judgment as to how much you use each

judgment as to how much you use each time.

Scrotal Tumor—Sprained Back.—About the 15th of June I had my 10-month old colt castrated; the operation proved to be successful so far as I could tell for the wounds were healed at end of two weeks; however, I noticed he traveled queer in hind parts and has gradually grown weaker in them. It is most noticeable when he travels uphill and it is also hard work for him to get on his feet. From his actions I imagine there is something wrong with his back, but he has lost no flesh, he eats well and has a normal temperature. I am at a loss to know what to do for him and come to you for advice. H. M. B., Howell, Mich.—Every year I am called into the country to treat cases of this kind and I usually

find the lower end of cord has adhered to skin-of scrotum instead of retracting back thru inguinal ring into body. When colts are castrated during the hot weather the cord should be left short and when the wounds are healing if the cord is inclined to hang low and unite with the skin of scrotum the adhesions should be broken loose with the finger and if the cord appears to be hanging too low a portion of it should be removed with either an Ecrasuer or an Emasculator. Now when colts are castrated and the caustic clamp used, this condition is very apt to arise on account of the cord being held down and out of body for 24 or 48 hours. This is a very good reason why the old method of castration should be dispensed with and a new method adopted. If you find the cord hitched to scrotum, which I think you will, cut down on tumor, dissect out the diseased parts, pull cord well out of body, cut it off with an Emasculator and your colt will soon get well. Both sides may be affected. If his back is sprained apply equal parts turpentine, aqua ammonia and sweet oil to back every two days and feed him well. Wormy Goslings.—My goslings have been very thin for some time. On investigation I find the intestines and gizzard full of very fine thread-like worms, and I would like to know what to do for them. Subscriber, Springport, Mich.—each gosling, if they are a month old, 3 drops turpentine in % of a teaspoonful sweet oil; also dissolve 3 drs. citrate of iron in each gallon of their drinking water. Your premises, where they run, should be cleaned and if they are running in a lot and have access to a pond you had better bar them out until they are rid of worms; besides the dishes you feed them out of should be thoroly scalded and left in the air and sunlight between feeding times. Their food should also be well cooked.

Abscess on Shin.—I have a 7-year-old mare that has a bunch on hind shin

rid of worms; besides the dishes you feed them out of should be thoroly scalded and left in the air and sunlight between feeding times. Their food should also be well cooked.

Abscess on Shin.—I have a 7-year-old mare that has a bunch on hind shin which has broke open several times. The leg at present seems tender when rubbed. J. M., Fennville, Mich.—Perhaps there is some foreign body in leg which acts as an irritant, causing the leg to inflame from time to time and suppurate. Now the first thing for you to do is to ascertain what is causing the leg to remain sore. If it is now discharging pus follow the opening to bottom and you may perhaps find a small splinter of wood, or perhaps a piece of dirt that will prevent the leg from getting well, but as soon as it is removed a recovery will take place. Apply equal parts spirits camphor, extract witch hazel and alcohol to sore parts twice a day and if you make a wound during your investigation apply one part iodoform and four parts borac acid night and morning, covering the sore with some oakum and light bandage.

Septic Infection.—Last February I had a cow take sick some two weeks before she oakum and light bandage.

Septic Infection and she was only a giving about a quart of milk twice a day. She appeared to be weak in hind quarters and lingered for two weeks and died. When opened found a hole leading from each teat to backbone. Her bag was quite decomposed and matter must have been forming several days before she died. Now what I would like to know is, did this cow die of milk fever? I forgot to say that I took a calf away from her as she was too weak to expel it herself, B. W. M., Vicksburg, Mich.—Your cow died the result of septic infection. When pus formed in her udder it should have been allowed to escape; had this been done she would have perhaps got well. No matter what part of body pus forms in, if it is possible to tap and drain the abscess, it should be done, for fear of it being reabsorbed, and poisoning the blood. She showed no symptoms of parturient a

Chicago live stock commission firms are cautioning their country patrons to look out for "high spots" in the hog market from now on and to use them for marketing their remaining supplies of hogs that are ready to come. "Take advantage of every upturn," is the advice given in a recent circular letter. On the one side there is the universally recognized hog shortage, and on the other side is the determined resistance to advances in prices made by the packers. This has resulted on some recent occasions in sharp breaks in prices. The market frequently varies a good deal the same day, and advances in a certain favored class of hogs do not always include advances in less attractive grades. Old packing sows are apt to be bad sellers whenever the aggregate hog receipts happen to be of good proportions, and strictly grass-fed hogs are usually salable only at comparatively low figures. Stags no longer top the market, hot weather having stopped the sausage industry.

Milking Machines at the State Fair. The management of the State Fair to be held at Detroit, has made arrangement with the John W. Ladd Co., of Saginaw, with the John W. Ladd Co., of Saginaw, to exhibit at the State Fair, B-L-K Cow Milkers, together with the Burrell Cow Cleaning Machines, in actual operation. Exhibitions of the milking will take place at 9:00, 11:00, 1:00, 3:00 and 5:00 o'clock. The exhibit will be under canvas, located between the cattle and sheep sheds. Cows will be furnished by the association to be milked by these machines. These exhibitions will be extremely interesting to the dairy farmers. The milking machines have, without doubt, come to stay. There are now in the state of Michigan alone, nearly 40 installations, and in the world there are over 6,000 machines in use. The attendants in charge of the exhibitions will be only too glad to answer questions regarding machines, as the exhibit is made simply for educational purposes. Any of our readers who are milking ten or more cows we would advise seeing this exhibition while at the fair.

WE WILL NOT BE AT THE STATE FA

We Can Light Your House With ELECTRICITY

For 40 Cents per Week.

You can have electric light day and night in your house, barn, cellar, yard, or any place light is required.

Call and let us explain how and why we can do this.

MICHICAN STORAGE BATTERY CO.,

69 Atwater St., E., Detroit.

Micigan Telephone Main 4977.

BIG BARGAINS. Registered Percheron Stallion P. C. boars; 50 registered sows; 75 reg. Shropshire rams; 150 reg. ewes. J. C. BUTLER, Portland, Mich

WANTED 5 Guernsey Cows (registered) state age, breeding, results, price and when freshen.

R. E. ALLEN, Paw Paw, Mich.

BREEDERS' DIRECTORY.

CATTLE.

ABERDEEN-ANGUS.

Herd headed by UNDULATA BLACKBIRD ITO 83836, one of the best sons of PRINCE ITO 50006, and Grand Champlon Bull at the Detroit and Grand Rapids Fairs of 1907 and 1908. Herd conwoodcote stock farm. Ionia. Mich.

DUY Herd and Flock Headers at Kalamazoo, De-troft and Grand Rapids State Fairs, 6 Polled Dur-ham and Angus bulls, 10 South Down and Hampshire Rams, of Clover Blossom Herds, Pt. Austin, Mich.

HICKORY GROVE STOCK FARM, Owen Taft, Proprietor, R. 1, Oak Grove, Lelv. Co., Michigan. Bell phone

HOLSTEINS—A few fine bull calves (registered) from 4 to 7 months old at \$50 each.
I. M. SHORMAN, Fowlerville, Mich.

HOLSTEIN FRIESIANS Herd headed by Mercedes Royal King. W. B. JONES, Oak Grove, Mich.

75 REGISTERED HOLSTEINS,

from which I want to sell at once 25 cows and heifers 2 2-year old Bulls and 3 Bull Calves, Special inducements to quick buyers. L. E. Connell, Fayette, Ohio.

TOP NOTCH HOLSTEINS.

Top Notch registered young Holstein Bulls combining in themselves the blood of cows which now hold and have in the past held World's Records for milk and butter-fat at fair prices.

MCPHERSON FARMS CO., Howell, Mich.

BOARDMAN STOCK FARM, | Holstein Cattle, JACKSON, MICH.

Has more imported Holstein-Friesian Cowsthan any farm in the Middle West. Registered BULL CALVES of the most fashionable breeding. 36 fine, registered, Duroc Jersey sows due to farrow soon.

FORSALE—One three-year-old Jersey bull. 7 grade
Jersey cows, 300 lb. butter producers, due to fresh
en soon; 6 yearling heifers. J. M. Park, R. 5, Coopersville, Mich

JERSEY Bull Calf born Feb. 9, '09, first calf of a heifer whose dam gave 7344 lbs. of milk in '08, Sire's Dam's record 10,080 lbs. in 10½ months, THE MURRAY-WATERMAN Co., Ann Arbor, Mich.



Northern Grown Jerseys. ROYCROFT FARM, Sidnaw, Mich.

Lillie Farmstead Jerseys. We have some splendid bull calves for sale from one to six months old. They are from cows with records of 300 to 425 pounds of butter last year. Write for describing and process. write for description and prices.

COLON C. LILLIE, Coopersville, Mich.

RED POLLED BULLS, from 6 to 15 months old, bred from good milking sows. John Berner & Son, Grand Ledge, Michigan.

MARSTON FARM—JERSEY CATTLE. T. F. MARSTON, Bay City, Michigan. CHOICE JERSEYS. Large St. Lamberts. Young CLARENCE BRISTOL, R. No. 2, Fenton. Mich

H EAVY MILKING SHORTHORNS—Can spar a few females. Good notes good as cash J. B. HUMMEL, Mason, Mich. (Citizens Phone.

J. B. CROUSE STOCK FARM, No bulls for sale Have some choice cows and helfers at right prices

SHEEP.

OXFORD RAMS & EWES bred by, and ewes prize-winning rams, for sale, Address either B. F Miller, Flint, Mich., or Geo. L. Spillane, Flint, Mich.

OXFORD DOWN RAMS and EWES. I.R. WATERBURY, Highland, Mich.

DELAINE RAMS—Large, heavy fleeced Delaine and American Merino Rams, Also 20 good ewes. S. J. COWAN, Rockford, Mich.

100 HEAD of good breeding EWES from 1 to 4 years old, mostly all black faces, a few are white faces. Price \$5 per head.

J. B. GARDNER, Box 437, Cadillac, Mich.

REG. RAMBOUILLETS-64 rams, 200 ewes and lambs. Flock founded 1892, with 40 select ewes. All rams used imported or from tmp. sires and dams. J. Q. A. COOK, Morrice, Mich

REGISTERED Delaine Merino Rams—Descended from Standard Model and A. T. Gamber's Ringleader.

C. M. MANN, Rockford, Michigan.

HEAD YOUR FLOCK WITH PARSONS OXFORDDOWNS

who have the popular blg, dark faced sheep, with long, heavy wool. My rams are graded according to their form, size, wool, etc. I do not offer a sheep that should not be of satisfactory service to you. Ram lambs, weight 70 to 125 lbs. Grade X \$15; grade XX \$20; grade XX \$25. Lave rams one to five years, weight 150 to 250 lbs. Grade X \$15; XX \$20; XXX \$25. Can also supply you with registered hornless delaines, Blacktops and Cotswold rams. Don't delay, order now and I will pay the express charges (Michigan's largest breeder of good sheep—over twenty years in the business. Address Grand Ledge, Michigan's Reeder, of registered Dalesco

LORIMER KIPP, Breeder of registered Delaine sheep. High-class Rams for sale, shipped on approval. Rockford, Kent Co., Mich.

Log Cabin Farm has choice registered Ramboulllet Sheep of both sex for sale at farmers' prices. Citizens Phone Augusta. Chas. F. Koster, Augusta, Mich.

Choice Shropshire Rams For Sale.

MAPLE LAWN FARM A. E. BACON & SON, Prop's Sheridan, R. 10, Mich.

CHROPSHIRES, all ages, both sexes, extra quality and breeding in tots to suit. Also a few large, robust Rambouillet and Franco rams. Will be priced so as to move them quickly. Correspondence and inspection invited. C. LEMEN, Hamburg, Mich.

SHROPSHIRE HALL STOCK FARM.

Will make special prices for thirty days, on ewes rom 1 to 3 years old, all bred to Imported Cooper, and Mansell rams to lamb in March and April, also on very choice ewe lambs, this is to make room for an importation that is going to arrive this spring.
L. S. DUNHAM & SONS, Concord, Michigan.

BERKSHIRES

A few bred sows left yet, but no boars. Spring pig-of best families. Guernsey Cattle, Plymouth Rocks Pekin Ducks and M. B. Turkeys. HUP1 FARM, Birmingham, Mich., G. C. HUPP, Mgr

NORTHERN GROWN BERKSHIRES.

A FEW FALL GILTS bred for fall farrowing, also choice lot of spring pigs bred by King Premier. A. A. PATTULLO, Deckerville, Mich.

Improved Chesters. Choice pigs of March and Also Holstein Cattle, a few cows and young bulls for sale. W.O. WILSON, Okemos, Mich. Both Phones.

IMPROVED CHESTER WHITES. A fine lot of spring rowed in March and April. Price \$10. Satisfaction guaranteed. Colon C. Lillie, Coopersville, Mich.

DUROC JERSEY SWINE, Shepherd Dogs. B. for 15. J. H. BANGHART, Lansing, Mich.

DUROC JERSEYS CAREY U. EDMONDS, Hastings, Mich.

DUROC Jersey of size and quality. 40 Boars ready for service. 50 sows at Farmers Prices. Satisfaction Guaranteed, J. C. Barney, Coldwater, Mich

O. I. C.'s Boars & sows all sold, I have a fine lot of young pigs that will soon be ready to ship, A. NEWMAN, Route No. 1, Marlette, Mich.

O. I. C. SWINE. My herd is headed with a grandson of Jackson Chief, the world's Champion and Grand Champion, the greatest O. I. C. boar in the world. He is also grandson of Tutesy, the world's Champion sow. Pigs by him at live let live price.

A. J. GORDEN, R. No. 2. Dorr, Mich.

FOR SALE O. I. Cs. A better lot of spring pigs than ever. Will not exhibit at State Fair this year. Please send your orders, satisfaction guaranteed. OTTO B. SCHULZE, Nashville, Mich.

O. I. C's -ALL AGES. Thirty sows bred for spring farrow. Shipped on approval. H. H. JUMP. Munith, Mich.

Poland-Chinas Perfection Strain.
Spring pigs only. Order now. E. D. BISHOP, Route 38, Lake Odessa, Mich.

POLAND-CHINAS. Long bodied, strong boned, spring pigs, both sex, at low prices. Send for snap-shot photo. Robert Neve, Pierson, Mich.

OLAND-CHINA BREEDERS are invited to inspect my great herd at Michigan State Fair will be there strong with a car load, from the besi herd in Michigan. Wm. Waffle, Coldwater, Mich

POLAND-CHINAS—Choice young boars ready young Sows bred; right prices. Write today, L. W. Barnes & Son, Byron, (Shiawassee Co.) Mich.

Poland-Chinas. Nothing but spring pigs. Let us have your order now. WOOD & SONS, Saline, Mich.

ENGLISH YORKSHIRES. LARGE Boars ready for service \$15.00; Gilts bred for fall far row \$20.00; spring pigs either sex. Satisfaction guar anteed. COLON C. LILLIE, Coopersville, Mich

CONDUCTED BY COLON C. LILLIE.

FALL CARE OF THE DAIRY HERD.

There is no time during the year when dairy cattle require better care and more liberal feeding that during the autumn months, yet very few dairy farmers appear to realize the importance of giving the cows any special care and attention during this critical period. My own experience in feeding and caring for dairy cattle leads me to believe that more than one-half of the complaints regarding dairy cattle coming thru the winter in a poor, thin, emaciated condition is due directly to their being kept out too long in the pasture or fields and then changing them into winter quarters and putting them on a ration of hay, dry forage and fodders.

The cow that is allowed to run outside until cold weather comes and compels her owner to put her in the stable for winter, cannot regain her lost condition and flesh and become accustomed to her change of food and surroundings in any short period of time. Then again, few dairymen practice a liberal system of feeding during the winter, more especially when the cows are dry, and for that reason they cannot recover their condition and go thru the calving period and come out in condition to do efficient dairy work the following season.

The average dairy farmer takes it as a matter of course that cows usually shrink during the fall and fall away in their flesh condition, and therefore he makes no plans to remove the cause of the shrinkage and falling away in con-

velopment and this will require that the crop be sowed at various times so that one plot will be at that stage of growth at the time it is needed for feeding pur-I generally sow one bushel of poses. peas and two bushels of oats mixed, to the acre. With the exception of alfalfa there is no kind of forage superior to oats and peas to keep up the flow of milk and maintain the flesh condition.

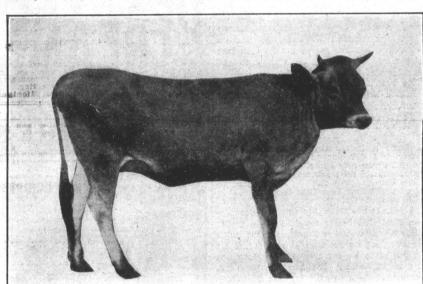
For early fall feeding there is nothing superior to sweet corn. This may be sowed slightly thicker than the common field corn and it will make a good growth of fodder and furnish many ears which will add to its feeding value. Sweet corn makes a very palatable feed and the cows will consume large quantities of it. In many cases enough to make up for the deficiency of the pasture grass.

Another point that many neglect is making the cows comfortable during the fall months. I believe that as soon as freezing nights come they should be put in the stable every night, but I am in favor of allowing them to be out every favorable day, for the extreme cold winter weather which we are sure to have in this latitude compels us to keep them confined in the stable much longer than we realize. The man who allows his cows to go dry early in the fall is cultivating a habit in them that will be hard to overcome, for once a heifer or cow is allowed to go dry after being milked a few months it is very hard to make her continue her period for a longer time after she drops her next. Training as well as breeding influence her future usefulness.

New York. W. MILTON KELLY.

WHAT IS A COW TESTING ASSOCIA-TION?

Mr. Lewis Palmer, of Media, Pa., writes and asks the above question, what is a Every thinking dairy farmer knows that cow testing asociation? Michigan readers



Promising 16-Months' Old Heifer, the Property of A. C. Bennett, of Kent County.

sure to be a falling away in the production of milk.

Cows that are expected to return a this practice is followed.

to come every year. Grass does not ought to do. deed, but wiser still is the farmer who with his neighbors. grows enough ensilage so that he can to fail in the fall.

when in the milk stage of the oats de- at all? Unless we keep, as it were, a

there are certain essentials that cannot are generally familiar with the idea of be neglected at any season of the year a cow testing association, especially readthe cows are kept up in a condition ers of the Michigan Farmer, but I preto give milk, and that if any or all of sume there are many who have not been these essentials are neglected there is interested heretofore and may be so now. At any rate, I deem the question of sufficient importance to answer it briefly.

A cow testing association is simply a profit must have liberal rations and the co-operative business association among kind of foods best adapted to their needs, dairymen. The dairymen of a commu-They must have dry, comfortable and nity, realizing the importance of testing well ventilated sleeping places and be the individuality of their cows, organize kept free from excitement caused by into a business association, and hire a exposure and neglect. The practice of man to go from farm to farm to do this allowing dairy cows to run over the testing. Some one says, "if that's all whole of the farm and be herded by dogs there is to it, why don't the farmers and children and compelled to eat frosty themselves do the testing?" and echo clover and forage cannot be made to answers, "why? Yes, why don't the return a profit, even tho they may con- farmers do this testing?" I have tried sume waste forage and fodders, when to solve this problem in my own mind and the conclusion I have come to is that To supply good food for the dairy it is because the farmer has so very many necessary that we exercise forethot and things to do he doesn't have time to do plan for the fall season which is sure these things and many others that he Consequently, his cows are grow rapidly after cold weather comes not tested. He goes on from year to year and what does grow contains but little without knowing anything about the innutriment. The dairy farmer who plans dividuality of his cows. When he reala system of supplemental forage crops izes sufficiently the importance of the to tide him over this period is wise in- question, then he is willing to co-operate

The great object of a cow testing assoopen a silo and begin feeding his cows ciation is to test each cow for economical ensilage as soon as the pastures begin production. The idea is not to find out how much the cows will produce, to see The next best feed after ensilage is how much you can make them yield by oats and peas sowed along about the excessive feeding, or anything of that middle of July and allowed to stand as sort. The idea is to find the net profits late as possible and cut and hauled to from each cow. This is the question that the stable and fed. To make the best dairymen are interested in. Are there use of oats and peas they should be fed cows in the herd that make no profit

The Passing of the Milk Factories

has been caused by

The Universal Adoption of Cream Gathering

The Vermont Farm Machine Company are the pioneers in the cream gathering system. This cannot be successfully denied.

The farm or dairy sizes of the United States Cream Separators made such headway that the proprietors of milk factories, against their will, had to change. The farmers demanded it.

Not 10 per cent of the whole milk factories of nine years ago are running today, as such. They have either closed up or changed to cream gathering, the more economical plan. Our would-be-competitors," who are always "claiming the earth," cannot deny this fact.

These "would-be-competitors" had been supporting the whole milk scheme and fighting the progressive cream gathering system. saw that their efforts were futile-that the change was bound to comethey tried to save what they could out of the wreck.

If you have read their big blustering advertisements containing testimonials from creamerymen, you have noticed that nearly all admit they changed from whole milk and took agency for farm separators of this particular "would-be-competitor," because of the large commission allowed to the creamery on the sale of their Separators. The creamerymen made more money out of them than they did on the cream. Some went so far as to refuse to take cream from any separator which they do not sell and get the commission on.

This worked for a time, but the farmers were too intelligent to be bulldozed in this way. They insisted on having the BEST separator. All these creameries tacitly admit that they had to give up their exclusive agencies and take cream from the United States Separators.

Several events forced them to it. Their pet separator was beaten in the greatest International skimming test ever held, in endurance tests running over thirty days.

The United States Separator also beat this pet separator in the county where its factory is located; and in that county, for ten years the United States has averaged more than three separators to every one of this 'would-be-competitor's.'

Figuring on the same basis as our "would-be-competitors" figure their profits, it puts seventy-five dollars a year into the farmer's pocket if he uses a United States Separator instead of this "would-be-competitor's" separator.

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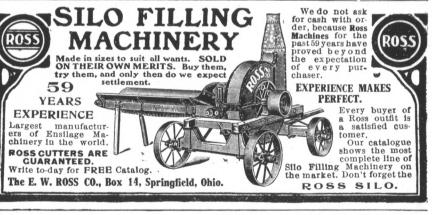
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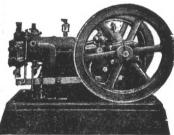
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FARMERS will find a display of the LOUDEN goods at the Nichigan State Fair at Detroit, September 2nd to 10th inclusive, and are cordially invited to inspect them.





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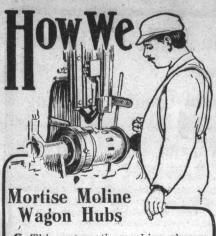
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making us no profit, or not, consequently, we are liable to keep cows year after year in the herd that are paying us little records of the cows we will be able to cull out each year the unprofitable ones and, in a short time, raise the standard of our herd so that we would realize a much larger profit at dairying.

Now the cow tester is a young man competent to weigh the milk of each cow, take a sample of it correctly, test this sample accurately for butter-fat, weigh the feed of each cow, figure it up at the market price, and charge each cow with the cost of her feed and give her credit for the butter-fat, or milk, she produces at the market price. This is keeping a personal account with each cow. At the profit made by each cow and leaves a record of these figures with the farmer. He also keeps in a book for that purpose a copy of this record. At the end of the year he gives to the farmer a complete record of what each cow in his herd has done that year, giving the total number of pounds of milk produced, the average test of this milk, the total number of pounds of butter-fat produced, and the out the amount of food consumed by each eow at the market price and charges up to the cow and simply strikes the balance so that the farmer can see at a glance just how much profit each cow has pro-

that make little or no profit are sold. The result is that the farmer does not keep on raising his herd from these poor cows, but only from the best, and if in addition to this he will purchase his dairy sire of some one of the exclusive dairy breeds, breeding his best cows to this cows, it is only a question of a few years in the profitableness of his herd.

The State Dairy and Food Department a good stand. is fostering and encouraging these cow The best fe that will better dairy conditions greater better. than this. This department furnished blank books for the cow testers, blank leaves to be filled out and left with the farmer and then, the complete yearly records of each association are published in bulletin form for breeders convenience. These records are interesting reading. They are the only reliable data we have in this country, of any considerable number of cows, giving us an idea of the profitableness of dairying.

WHEAT AFTER CORN.

Here are a couple of problems which I would like some aid in solving: We have been using a three year rotation of corn, oats and clover, putting the barnyard manure on the sod for corn. As it is thot to be better to have the ground covered during winter, what would you think of putting wheat on at least a part of the corn ground where the corn is taken off to fill the silo? Would you use any fertilizer if you did this? Wo have better success on our soil, which is a rather heavy sand and gravel loam, to drag in the clover seed in spring. Would the stubble bother much in the spring dragging? I think I read that Mr. Lillie puts wheat on corn ground does he use a disk harrow to fit the ground with? What feed would you mix with rye to finish hogs that weigh 125 to 150 pounds?

Livingston Co. Subscriber.

Livingston Co. For a dairy farm with a three-year rotation, I know of no better rotation than clover, corn and oats. Peas and oats would be theoretically a better crop to raise than wheat, because the peas and oats would furnish feed for the dairy coy; but, as subscriber says, this leaves the ground bare over winter, which is wrong, and then you are not as sure of a good catch of clover with peas and oats as you are with wheat, and I would prefer verything into consideration, to raise the wheat, sell the wheat and buy the grain ration to mix with the corn silage and the clover hay, rather than to raise peas and oats if I only had a three-year rotation. Subscriber is right. I used to have this rotation and we got along nicely. For five years I had an average crop of wheat of 30.25 bu. per acre and the wheat was put in after the ensilage corn in the fall. Then came a change in seasons. Late

book account for each cow, we do not former rotation and extended it to four know whether we have some that are and, in some instances, to five years. Then again, I have a larger farm and can't put one-third of it into corn every year, and if I did I could not get it all or no profit; when by keeping careful into the silo. These things have influenced me to change my rotation. I have discontinued raising wheat after corn, but I am not raising as good wheat as I did. I am now sowing it after oats and oats and peas in a four-year rotation. If you can get the corn off by the 1st of September so that there is time to fit the ground, I do not think there is any better rotation than the one you mention. believe in fertilizer and always use fer-tilizer on wheat. About 200 pounds of fertilizer per acre gives the wheat plant a good start and helps it to get a good

We kept the corn ground cultivated end of each month he figures out the until late in the summer-in fact, cultivated it well up to the time when we cut the corn for the silo. We did this because it helped to prepare the ground for the wheat. When the corn was removed we piked up the stalks and ears that were left and hauled them off, and then fitted the ground by simply cultivating it the same as if it had been into We did not disturb the corn corn. stubble at all. Then when we drilled market price of this product, whether in the wheat the drill would straddle in butter-fat or in milk. Then he figures the rows of stubble without any difficulty. When the stubble stands all winter, they get in such a condition that the roller will smash them down and level up the corn ground so that you have a fairly even surface for the meadow which follows. It is a little rougher Now all cows that have made a good meadow than one likes to have but you profit are retained in the herd. Those can get along very nicely with it. If you sow the clover seed late in the spring so that you can harrow it, this harrowing would also help to level up the corn stubble, and, after they were rolled down with roller, I do not think they would clog the drag or interfere in covering the clover seed. I, however, sire and saving the calves from his best always sowed the clover seed in March before the ground thawed out in the when he has made a marked improvement spring and always got a good catch but my land is heavy and it is easy to get

The best feed to feed with ground rye testing associations. There is no work to fatten hogs is corn. There is nothing

HEIFER FAILS TO GIVE MILK.

I have a heifer that came fresh last spring and did not give any milk, and has not given any since. I have bred her again. Can I feed her anything that will cause her to give milk? She seems to be all right and is a fair one.

Kalamazoo Co.

R. B.

It looks to me from this meagre description, that this heifer would not be worth milking. I would not experiment with her but just as soon as she is fat, (and she ought to be fat now if she does not give milk), would sell her for beef. A heifer that fails to give milk is no better than a steer. You better get rid of her. It is barely possible that this heifer the next time she freshens would give milk, and perhaps a fair amount of it, but it is a question whether she would ever be a profitable cow. I would not go to the expense of keeping her again for nine months to give her another chance. You might better sell her for beef and buy another heifer. Occasionally such an animal appears to make the study of live stock more uncertain but more interesting. I have known heifers coming in in the back pasture where the calf died from some cause or another, and there was no one to milk her, causing the heifer to dry up. After once dried up; she could not be brot to her milk again. Such heifers, when bred again and kept until they come fresh, are all right. But as I understand it, this heifer, without any apparent cause, gave no milk. Under such circumstances, I would say that she is not the kind of heifer one would keep for a cow.

AUGUST EDUCATIONAL SCORING CONTEST.

The August educational scoring test will be held on the State Fair Grounds, Detroit, on Friday, Sept. 3. This is held at that time to enable all to enter their butter or cheese for premiums at the fair. The butter or cheese should be forwarded not later than Monday, Aug. 30. It should be shipped direct to the fair grounds, and be there a few days to cool properly for scoring.

Then came a change in seasons. Late years we have not be able to get our ensilage corn taken care of early enough so that we can get the wheat in on time so we havn't been raising as good crops late years. Then I wanted to raise sugar beets. This interfered with my

Imagine a man with 40 legs, 40 feet to wash, 40 shoes to repair,

and vet unable to travel as fast or as far as a two-legged man. Wouldn't have much excuse for those bothersome, extra 38 legs, would he?
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THE VENTILATION PROBLEM.

the windows should be raised an inch flowers. So I extracted them. or two, according to the temperature, to admit fresh air. opening near the top of the front side, four-frame extractor—one for each or if the house has a double roof, pocket. The frames as I made them at the peak of the roof, where hold but two sections each; were I to the bad air can pass off. This make new ones they would be made aperature should have a door or slide deep enough to hold four sections each. according to the weather. An opening ing, sixteen sections being emptied at one at least eight inches square for every turn. 200 square feet of house room or floor

and lowered at least an hour before sun-The door or doors may be opened instead extractor but feed to the bees. of the windows if screens are put in to

in regulating the ventilation. A theramber, or dark, in color and sections mometer hung in the poultry house is of vari-colored honey do not sell well. material assistance in determining whether to admit more or less air.

need not worry about ventilation, for it run them thru the extractor. will take care of itself. A half century fowls kept in such buildings.

The ventilation problem is also solved must be emptied. This I let the bees do in open-front or curtain-front houses. in the rear of the pen, protected by a board or curtain partition which allows out the wind and drafts and prevents the warm air from escaping too rapidly. Hens in such apartments have plenty of fresh air and are perfectly comfortable.

Colony houses should be built to admit If the combs are free from pollen they the largest amount of fresh air possible are quite safe from wax moths. Cells without drafts. Houses with the two of pollen must be cut out. If there is sides and back covered with paper, and much pollen I cut out the whole comb. having an open front covered with halfand are properly ventilated.

Chicken coops should receive as much a fall surplus may be secured. attention as other poultry quarters in fresh air free access.

Study well the problem of ventilation, for upon it may hang the story of success for fall honey I don't bother about it. or failure of one's poultry venture. The admittance of plenty of fresh air and the dismissal of the foul air, without drafts,

During good and prolonged nectar flows the apiarist generally will not be caught he can keep on growing buckwheat conwith a lot of partly filled sections. Cer- tinuously year after year-at least for a tainly not if he manages rightly. It is time. We have been in the habit for during poor years that there is trouble years of sowing rye after digging the here. Such was the case two years ago. potatoes, or taking off some other crop, For a short time the bees worked fairly and turning the rye under the following well, then the flowers went on a strike spring just before it begins to head out; and whole superfuls of sections were left but it never occurred to me before that in such an unfinished condition as to be I could get two honey crops by sowing unmarketable.

poorly sealed sections is quite a problem. locality, and furnish valuable blossoms If they are half or more sealed over, for the bees, because I have done so rethe combs can be cut out and sold as peatedly, but never in connection with "chunk" honey, providing one has a rye. * * * I hope a number of our market for honey in this form. The bee-keepers will test this idea, and recombs may be packed in special large port. If the frost holds off in the fall, screw-top cans, or maybe some will like good crops of buckwheat can be secured, gallon stone jars all right. Extracted even if sown as late as August 1 or later; honey is to be poured over to fill the and if the frost should ruin your chance

must be less than for section honey. If all it costs.

section honey sells for fourteen or fifteen cents per pound, ten to twelve cents per pound is about right for this. about as profitable as section honey for, you see, the extracted goes at this price, too.

As already said, the season preceding How to properly ventilate a poultry the last one was poor. I had a good many house is a problem everyone keeping hens sections well filled with honey but not must solve. Too much or too little ven- sealed, or not many cells sealed. When tilation is injurious to the health of the sections have but little honey in them I flock. Hens, like human beings, take let the bees empty them, as will be dein too close or too open scribed later. But feeding such full sechouses. A happy medium must be found, tions I that rather wasteful, as the bees If the house is practically air tight would get enough for winter from fall

I made some section-holding frames, There should be an four such frames being necessary for a which may be left part way or wide open That would shorten the work of extract-

If some of the sections are partly capon every warm sunny day during the cut off. If the combs are fastened to all cold months, the windows should be sides of the sections they will not break raised after the sun is a few hours high, out, but if loose from the sides and bottom the spin in the extractor will break set so as to give the pen a chance to them. Therefore, if you want to save warm up before the hens go to roost, such combs, don't run them thru the

I have spoken especially of poor seakeep the hens from getting out into the sons, but during good seasons as well a few sections will be left unfinished at During the night two windows may be the cessation of the white nectar flow. raised an inch and the slide opened about At this time all sections should be taken One must use his judgment off the hives because the fall honey is

There will also be some sections having whether to admit more or less air. but a few cells filled, therefore having In a house whose front side is made but a few ounces of honey. Such I do of boards with cracks between them, one not consider worth the time required to honey is to be stored in them they can ago most farmers' henhouses were simply be used without emptying, for the little well battened on the north and west light honey will not show thru the darker sides. Colds and roup rarely ever attack colored fall product. If they are to be carried over to the next season they

Such sections are put into supers and houses have roosting apartments the latter "stacked" upon an ordinary bottom-board several rods from the apiary. Cover the top of the stack bee supply of fresh air to reach the hene tight, and contract the entrance so only from underneath and the foul air to a few bees can pass at a time. The bees escape overhead. This partition keeps will soon find the honey and carry it home. If the bees are given a large entrance to the supers it will excite them. inducing robbing, and in their eagerness the bees also tear up the combs

If the fall flow is good the sections inch wire netting to keep out night in- filled with comb can be put, or left, in truders, serve their purpose admirably supers and put on the hives at the proper With comb ready for filling, quite

Those sections from which honey was the matter of ventilation. Never close extracted must be cleaned by the bees a coop tightly but, day and night, allow in the same manner as the partly filled ones, that is, if they are to be carried over to the next season; if to be used

F. A. STROHSCHEIN. Wisconsin.

Commends Buckwheat as Honey Crop. to one's flocks, whatever may be their -The veteran bee authority, Mr. A. I. quarters, is the correct solution of the Root, reproduces, in his interesting colproblem.

Maine.

A. G. SYMONDS.

Root, reproduces, in his interesting column in "Gleanings," the article, "Growing Buckwheat for Honey," which appeared in The Farmer some weeks ago. HANDLING UNFINISHED SECTIONS. In his endorsement of the plan described he says: If I understand the writer of A Problem of Importance in Seasons Such the article, he has struck on a plan by which the bee-keeper can get two valuable crops for honey; and not only that, turnip and rape seed with the rye. I What to do with so many filled but know they will both winter over in our of getting seed, the valuable blossoms Honey put up this way will have to be for honey, and the buckwheat to turn sold direct to consumers. The price under for succeeding crops, will be worth

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We recognize that there are still sevare not readers of the Michigan Farmer, the remarkable time of 2:02%. It is to get in touch with those and to that we are making the special trial offer We want them to know what the Mich-Experience has taught us that if we can situated that they can possibly attend it. get good farmers interested in the Michigan Farmer they will become regular subscribers. If they will read it a few The Wheat recent weeks may best be months we feel confident they will become Situation. described as a interested in it.

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So the sooner you can get to work, the more value to the subscriber. If any the article will be as represented to the subscriber. If any the former conditions, are all good, practical articles of known because the figure now prevailing the due to an uncertainty as to how recitally as to how required to the duty levied under the regular schedules of the tariff bill would apply or might apply to any or all of the commodities imported. The provision of a maximum tariff, however, was incorporated in the bill solely for the purpose of protecting our trade with foreign countries and to provide a means of retalianties and to provide a means of explaining this provision to the duty levied under the regular schedules of the tariff bill would apply to any or all of the country.

In her attempt to gain a coast line, to solve the artification of the reduction of the reduction of the as the awards of the arbitration of the reduction of the as the awards of the arbitration of the reduction of the reduction of the as the awards of the arbitration of the reduction of the reduction of the subscriber and the provision of a maximum tariff, however, was incorporated in the bill solely for the purpose of protecting our trade with foreign countries and t will arrange to pay them in that way.

this without hesitancy because the work tion for the reader who grows wheat for is honorable, easy and effective. trust our friends will take hold of this wheat almost at the vanishing point matter, and see to it that every person thruout the world at the commencement not now a reader will give the Michigan of the present harvest, it is at once evi-Farmer a trial during the next few dent that supplies for the year must be months. The price, 10 cents, to January, provided by the current year's crop. As is almost nothing and is charged merely the first step toward determining the

additional land last year which will this year be opened up for use for the first

ther regarding the character of the exhibits which may be seen at this fair for the benefit of those who have ever attended it, and those who have not should attend and see for themselves.

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West Michigan fair grounds is one of the very fastest in the country and that at the recent race meeting a world's record vators in which it is held for consump-which has stood since 1892 was broken tion. That speculative dealers believe in eral thousand farmers in Michigan who by a team of pacers, driven to pole, in a higher market is indicated by the fact

get them to read our paper a few months features will be liberally provided so that from both an educational and an enter- like confidence. which will be found on another page. tainment standpoint, the West Michigan State Fair will prove an event which igan Farmer is and its value to them, should not be missed by any who are so

> The wheat market during waiting market, with the big mills

For that reason we have decided to and elevators absorbing all that is ofmake a very low price to secure the fered at around the dollar mark, but orders and in addition we offer a choice with comparatively little grain moving selection of premiums to our friends as for this season of the year. In market a reward in helping to get them.

hence an attempt to analyze the situation Any boy, girl or parent can attend to at this time will be a profitable occupa-We market. With the available supply of

crop, which means that all the wheat will be wanted for consumption during the year at good prices. With this fact It is unnecessary to say anything fur- in view, it would seem the part of wisdom on the part of growers in this country to market their crop slowly, holding for a fair price whenever the market drops below a reasonable figure. All of the wheat will undoubtedly be needed and taken at at least a dollar a bushel pleased to learn that the track on the from the growers, and those who sell for less than this figure will probably be adding to the profit of the mills and elehe remarkable time of 2:02%. that futures are selling about even with st As in recent years other entertaining cash wheat. With the grain in his bin T we believe the grower can safely show a

Since the passage of The Maximum the new tariff bill and the publication of com-Tariff. ments on same in this department, we have received an inquiry from a reader asking for an explanation of the maximum tariff provision con-

tained in section two of the tariff law. This reader, from reference to this provision which he had seen in other publications, evidently that the maximum tariff provision of 25 per cent ad valorem

providing general information upon this feature of the new law, we will give the text of section two of the tariff bill which as they land here from foreign ports. is as follows:

Sec. 2. That from and after the thirty-first day of March, nineteen hundred and ten, except as otherwise specially provided for in this section, there shall be levied collected, and paid on all articles when imported from any foreign country, into the United States, or into any of its possessions (except the Philippine Islands)

to start an interest. Any reader may probable total of that crop, let us review as many promuma as he can get subscribers for. Samples for soliciting or for distribution will be sent free, will be come in the found in this paper a universe of the country. The Automative of the confidence of the country would be showed to put in, but we can send you as for the country would be showed to put in, but we can send you as part or you can use plain paper. Write us.

SAMPLE COPIES FREE,

We are sending a copy of this week's issue to several thousand farmers who would be interested to several the several through the several thousand farmers who would be interested to several through the several through

HAPPENINGS OF THE WEEK.

Foreign.

Foreign.

Spanish troops in Melilla, Morocco, are still on the defensive. The forces are too weak to begin an active campaign. At least 50,000 more men will be needed to hold present occupied positions and make advances.

The first shipment of the unique trophies from Col. Roosevelt, who is still in Eastern Africa bagging game, is now in Washington and will be unpacked in a few days and prepared for exhibition in the new \$2,500,000 museum just erected by the government.

August 22 was the first day of the airship races at Rheims, France, and it is a compliment to American inventors that in two races the first, second and third positions were all taken by men flying machines after the pattern of those constructed by the Wright Brothers, of Ohio. The meet will continue thruout the week. American financiers have won a victory over the financial interests of Europe in securing from China permission to participate in supplying the loan for the construction of Hankow-Szechuen railroad. Not only this but a greater portion of the material for the roads will be taken from this country.

A heavy earthquake shock was felt at Lisbon, Portugal, on the 17th inst., and on the following Sunday a tidal wave did much damage to the shipping interests at Barcelona, Spain. Another series of shocks was also experienced about the same time as the disturbance at Lisbon, at Acapulco, Mexico, where the shore line raised some 30 feet.

President Gomez, of Venezuela, has appointed a new cabinet and council as provided by the new constitution of that country.

In her attempt to gain a coast line, Bolivia is likely to have war with Peru as the awards of the arbitrature.

National.

A river steamer burned on the Illinois river Friday, and a loss of \$15,000 was sustained by the owners. Forty persons, were aboard when the fire started. Forty-nine service and national guard rifle teams are at Camp Perry, Orio, attending the annual rifle contest.

The extending of the powers authorized

153

A movement among cotton manufacturers has been started for the restoration of the wages paid operators before the cut in 1908.

cut in 1908.

Fire believed to have been of incendiary origin destroyed 30 houses in a Portsmouth suburb district Friday.

The Mauretania steamship again is queen of the Atlantic, having established a new record in making the trip across that body of water to New York in 4 days, 14 hours and 38 minutes.

The census bureau reports that two-fifths of the population of the United States are church members, which s a substantial increase during the past 16 years.

substantial increase during the past 16 years.

It is now generally known that the Japanese government will return Ambassador Takahira to this country after he has served to draft treaties between his heme government and the United States. The United States is said to have lost \$10,000,000 thru the concessions made Cuba on sugar importations.

Telephone companies are having trouble since the new Lincoln pennies came out, the coins being heavier than the old pennies and about the weight of a nickle, are readily used at telephone pay stations instead of the more valuable coin. A party of sightseers are believed to have been lost on the crater of Mount Tacoma, Washington. They attempted to ascend the mountain without a guide. The new seismograph just installed at Ann Arbor, Mich., recorded a severa earthquake disturbance on Monday. The trouble was thot to be around Central America or in the Pacific ocean.

The steamship Waratah, which foundered somewhere off the shore of Cape of Good Hope several days ago, is now given up as a complete loss, and it is believed that nearly all of the 300 passengers aboard when the accident occurred, are drowned.

A storage battery, believed by experts

A storage battery, believed by experts to be of great importance in electrical engineering, has been invented by a Swedish inventor.

Under the law of Persia, the elevenyear old Shah is compelled to marry and preparations are now being made for the event tho the Shah protests against the union

union.

Two-thirds of the native population of Uganda, Africa, is said to have been wiped out the past seven years by sleeping sickness.

Grain receipts in June at 15 leading interior markets aggregated 43,423,955 bushels, compared with 45,644,917 and 64,650,970 bushels reported for June, 1998 and 1907. Of the total receipts 6.551,372 bushels was wheat; 18,926,628 bushels corn; 13,583,494 bushels oats; 4,035,551 bushels barley; and 326,910 bushels rye. The most marked decline is seen in the monthly receipts of wheat, which were about one-third below the June, 1908, receipts, and less than one-half the June, 1907, receipts. The receipts for the month, of oats, barley, and rye, were somewhat larger than during June, 1908. Grain receipts at the same markets for the crop season, beginning with September 1, to the end of the month totaled 630,680,686 bushels, compared with 639,449,090 and 718,408,117 bushels for the 1907-8 and 1906-7 seasons. The largest losses as compared with the 1907-8 receipts occurred under the head of corn and oats. The wheat receipts during the current season, 208,622,397 bushels, were about 26 million bushels in excess of like receipts during the 1907-8 season. The flour shipments during June from 13 important milling points, 3,030,368 barrels, compare favorably with the analogous figures for June, 1908, 2,831,326 barrels, tho falling short of the June, 1907, figures of 3,192,470 barrels. The six months' flour shipments from the same points 18,061,460 barrels, exceeded like shipments for the same period during the two previous years.

by. the charter of the central leather company, of New Jersey, was for the purpose of acquiring interests in other properties of acquiring interests in other properties of acquiring interests in other properties of a consumers by the condition with the building of has a same and a consumers and particularly interests of the properties of a consumers by the condition with the building of has a same and the southern railroads.

President Taft has announced that he well meet president Diaz of Mexico during his western trip this fail, and has also greet his contemporary, which will be the first instance of a president of the United States setting foot on foreign and the southern railroads.

Forest fires are raging near Spokane, Wash, and it is estimated that fulls.

Forest fires are raging near Spokane, Wash, and it is estimated that fulls a million dollars worth of timber has also two years the fight against the Houter family and the southern railroads.

The government is to push wirth all possible dispatch the case against the Harman merger of the Union Pacific and the Southern railroads.

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The government is to consumers by \$46,449,997. the consumers of the

	Augus	st 1.	10-Y1
Sections.	1909.	1908.	Av.
No. Atlantic Div	.79.7	85.4	86.1
No. Cen., E. of Miss. R.	.88.5	80.9	83.0
No. Cen., W. of Miss. R.	.88.8	81.4	81.7
South Atlantic	.81.1	87.1	83.2
South Central	.72.2	83.0	80.5
Far West	.91.4	84.7	88.8
United States	.83.4	83.1	82.6

		Conditi	on Augu	ist 1.	
Crops.	1909.	1908.	1907.	Ten-Yr.	July 1,
Crops.	2000.	1000.		Average.	1909.
Corn	84.4	82.5	82.8	82.6	89.3
Winter Wheat, yield—	01.1	02.0	02.0	02.0	00.0
	15.5	14.4	14.6	13.9	82.4
per acre, bushels	10.0	90.1	90.5	10.5	02.1
Quality				81.1	92.7
Spring Wheat		80.7	79.4		88.3
Oats		76.8	75.6	83.1	
Barley		83.1	84.5	86.1	90.2
Rye		88.3	88.9	87.9	91.4
Buckwheat	86.3	89.4	91.9	91.7	1111
Flaxseed		86.1	91.9	87.7	95.1
Rice	84.5	94.1	88.6	90.0	90.7
Tobacco		85.8	82.8	82.3	89.8
Hay (all)		92.1	87.0	87.0	87.8
Timothy		89.8	88.5	87.7	87.1
Clover hay production	78.7	96.6	74.7	82.0	83.8
		94.4	84.9	87.6	
Quality	04.4	88.8	88.7		91.4
Alfalfa, A		86.3	87.6		90.0
Millet	86.7	86.5	85.6		89.4
Kafir Corn			91.7	89.7	93.1
Pastures		86.4		86.7	93.0
Potatoes		82.9	88.5		89.7
Sweet Potatoes		88.8	85.7	86.8	
Apples	46.3	52.2	39.4	56.4	54.6
Peaches	45.4	67.1	33.3	54.5	50.0
Pears		70.6			57.5
Grapes		87.1	84.5	85.8	90.2
Blackberries	79.6	85.9	83.3		88.8
Raspberries		84.4	76.3		89.5
Watermelons	75.6	79.5	78.2		80.6
Cantaloupes	77.0	80.1	74.9		82.4
		89.1	81.9		
Oranges	97.0	93.0	90.7		86.1
Lemons					88.0
Tomatoes		84.5	85.8		91.6
Cabbages	85.3	84.5	89.4		90.7
Onions	88.8	88.4	90.5		91.7
Beans (dry)	89.1	88.0	89.3		89.1
Beans (lima)	85.7	86.4	85.1		89.1
Peanuts	85.1	85.5	84.9		86.7
Broomcorn	83.5	80.8	86.1		86.8
Hemp	91.7	77.4	88.1		94.0
Hops	82.7	86.4	88.7	89.0	79.2
		85.4	85.3	87.8	87.0
	88.0	88.3	92.3	88.9	82.5
Sugar Cane	90.4	87.3	92.0		
	71.0	83.0	75.0	90.0	90.4
Cotton	11.0	00.0	10.0	80.6	74.6

AT MICHIGAN FAIRS.

We want a representative at each fair held in Michigan and adjoining states. We pay a liberal commission to solicitors. Experienced solicitors desired but experience is not necessary. Write at once for terms, etc. Address the Michigan Farmer, Detroit, Michigan.

Michigan Fairs.

Michigan State, Detroit, Sept. 2-10. West Michigan, Grand Rapids, Sept.

Ct. 1.

Bay County, Bay City, Sept. 14-17.

Calhoun County, Marshall, Sept. 14-17.

Caro Fair, Caro, Sept. 14-18.

Charlevoix County, East Jordan, Sept. 8-30.

Clinton County, St. Johns, Sept 28 to Croswell Fair, Croswell, Sept. 22-24. Cass City Fair, Cass City, Sept. 29 to

Cass City Fan, Code
Oct. 1.

Deckerville, Deckerville, Sept. 14-16,
Eaton County, Charlotte, Sept. 21-24.
Flint River Valley, Burt, Sept. 21-23.
Fowlerville Fair, Fowlerville, Oct. 5-8.
Gratiot County, Ithaca, Aug. 24-27.
Hillsdale County, Hillsdale, Sept. 27 to

ct. 1. Howard City Fair, Howard City, Aug. Howard City Fair, Howard City, Ads. 6-18.

1 to Sept. 3.

Huron County Fair, Bad Axe, Oct. 5-8.

Imlay City Fair, Imlay City, Oct. 5-7.

Kalamazoo and So. Mich., Kalamazoo, Lug. 30 to Sept. 3.

Lenawee County, Adrian, Sept. 20-24.

6-18.

We will consider it a favor if any one knowing of any fair not in above list would please advise us of the time and place where same will be held.

Marquette County, Marquette, Sept.

Midland County, Midland, Sept. 14-17. Milford Fair, Milford, Sept. 28 to Oct. 1. North Branch Fair, North Branch, ept. 22-24. Sept. 22-24. Northeastern Industrial, Flint, Sept.

Northeastern Industrian, 21-24.
Otsego County, Gaylord, Sept. 14-17.
Osceola County, Evart, Sept. 14-17.
Ottawa-West Kent, Berlin, Sept. 21-24.
Tri-County, Lake Odessa, Sept. 7-10.
Tri-County, Reed City, Sept. 21-24.
Tuscola County, Vassar, Sept. 29 to
Oct. 1.

Allegan County, Allegan, Sept. 21-24.
Alpena County, Alpena, Sept. 00-00.
Armada Fair, Armada, Oct. 6-8.
Barry County, Hastings, Sept. 28 to Sept. 21-24.

Oct. 1.

Arenac County, Standish, Sept. 23-25.
Oceana County, Hart, Sept. 21-24.

West Allegan-South Ottawa, Holland, Sept. 21-24.

Sept. 21-24.

State Fairs and Expositions.

Michigan—Detroit, Sept. 2-10.
Indiana—Indianapolis, Sept. 6-10.
Ohio—Columbus, Aug. 30 to Sept. 3.
Illinois—Springfield, Oct. 1-9.
Kentucky—Louisville, Sept. 13-18.
Pennsylvania—Bethlehem, Sept. 7-10.
New York—Syracuse, Sept. 13-18.
Canadian National Exposition—Toronto,
Aug. 28 to Sept. 13.
Iowa—Des Moines, Aug. 27 to Sept. 3.
Wisconsin—Madison, Sept. 13-17.
Minnesota—Hamline, Sept. 6-11.
International Live Stock Exposition—
Chicago, Nov. 28 to Dec. 5.
American Royal Live Stock Show—
Kansas City, Oct. 11-16.
National Corn Exposition—Omaha, Dec.
6-18.
St. Louis, Gratiot Co., Aug. 16-21.
We will consider it a favor if any one

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Proslate Roofing

is made to meet the demand for a colored roofing where architectural effect is desired. We use our regular finished PAROID as a base and add an extra weatherproof deep red colored coating by a separate process.

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has been the standard low cost roofing for twenty-five years. Costs about the same as tarred felts and other cheap roofings, but lasts three or four times as long. Contains no tar, clean to handle, easy to lay.

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Puzzle maps are all the rage and not only furnish amusement for old and young, but are really one of the best ways of teaching the youngsters, as one of the best ways of teaching the youngsters, as the maps are cut in irregular pieces which give no clue to where they belong and the only way to solve them is to study the printed side and compare with other pieces. Maybe you think you know your geography, but this will keep you guessing. Given free for 2 TRIAL SUBSCRIPTIONS. Postpaid. Premium No. 164.



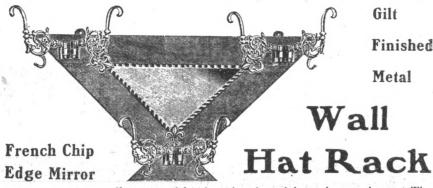
Everyday Cook Book

By Isabel Gordon Curtis. There are cook books and cook books, but the trouble is with most of them that they are too fancy to follow, and the housewife drops back on the old standby dishes after all, but this book was compiled with the view of making it a book of recipes, which are not too much trouble for everyday use, and the author has succeeded to a marked degree. The recipes are divided under 20 heads, and every recipe has been tested and verified by the New England School of Cookery. It is a very convenient form 41/4x91/2 inches, with white oilcloth cover, which can be washed. Contains 320 pages, half devoted to recipes, the others blank so that new recipes can be pasted in the book under their proper heads and easily found when wanted. Sent postpaid for 6 TRIAL SUBSCRIPTIONS. Premium No.



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In all the homes we reach, we don't believe there is even one In all the homes we reach, we don't believe there is even one little girl that can't find room in her family for this handsome dolly. It is 16 inches tall, with soft body, bisc head, open mouth showing teeth, opens and closes its eyes, and has a fine head of hair with side curls. It has a fancy dress, with blouse, removable shoes and stockings and trimmed hat with streamers. Pull a string and it says "papa" and "mama." Now every little girl can have one of these beautiful dolls, because we give it for only 6 TRIAL SUBSCRIPTIONS, and almost any little girl can get that many while we don't think you could buy the doll can get that many, while we don't think you could buy the doll alone in any retail store for less than \$2.00. Sent by express securely packed. Premium No. 169.



An ornament as well as an article of continued usefulness in any home. frame is made of pressed steel 24 inches long, finished in Ormola gold, baked on, giving it a very handsome appearance which will last for years if not defaced. The center is a triangular mirror with the latest French chip edge. Six removable metal hooks and two hangers for the wall This is so well made that there is practically no wear out to it under any ordinary usage. Given for 15 TRIAL SUB-SCRIPTIONS. By express. Premium No. 173.

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BAG. — Black seal
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metal finish. Contains
small coin purse. Size
8x4½ inches, not including handle. Sent
postpaid for 6 TRIAL
SUBSCRIPTIONS.
Premium No. 103.



EXTRA DEEP COIN EXTRA DEEP COIN PURSE. — Black kid leather, 3 inch, 3 ball frame. One pocket the size of an ordinary purse, while the other pocket is the full depth of the bag, 6¼ change .Sent postpaid for 5 TRIAL SUBSCRIPTIONS. Premium No. 104.



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Silverplated frame holding the blade at the proper 45 degree angle, a decided improvement over all other safety razors. Thin blades of the highest grade ribbon steel with reinforced back. Razor with one blade sent postpaid for 4 TRIAL SUBSCRIPTIONS. Razor with 6 blades sent postpaid for 6 TRIAL SUBSCRIPTIONS. Premium No. 112.



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DOUBLE SWING RAZOR STROP of excellent quality. Canvas for sharpening, leather for finishing. Sent postpaid for only 5 TRIAL SUBSCRIPTIONS. Premium No. 114.



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WATCH FOB.—Oxidized silver finish, on hard white metal base, black leather strap with nickel buckle. A very beautiful piece of die stamping, the corn and leaves standing out in high relief. Fobs of equal quality retail for 50 cents. Sent postpaid for 4 TRIAL SUBSCRIPTIONS. Premium No. 160...



TOBACCO POUCH.—All leather with draw strings and button fastener. Will hold a good supply of tobacco, or can be used for a money purse. Size, flat 555% inches. Sent postpaid for 4 TRIAL SUBSCRIPTIONS. Premium No. 161.

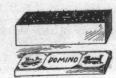


ROPP'S COMMERCIAL CALCULATOR.

— An invaluable book for farmers, containing hundreds of tables, especially for farmers' use; grain tables, wages, interest, log measure, capacity of bins, tanks, etc., value of different commodities at different prices, etc. Would take a book to explain its contents. Saves time and mistakes and gives accurate results. Pocket size, cloth covered. Sent postpaid for 3 TRIAL SUBSCRIPTIONS. Premium No. 118.



DOMINOES .- Double-six set, black with white dots; in box 2x2 1/4 x7 5/8 inches. Sent postpaid for 4 TRIAL SUB-SCRIPTIONS. Premium No .120.



GAME OF AU-THORS.— A pocket edition of this ever popular game, in fan-cy slide box, red leather paper cov-ered with gold letter-ing Sent postnaid ing. Sent postpaid for 4 TRIAL SUB-SCRIPTIONS. Pre-mium No. 121.





LOCK STITCH SEWING AWL .- Makes a ack stitch with one thread and one operation. Straight and curved needles, with thread ready for use. Indispensable about the farm for harness ,sacks, canvas or any heavy sewing. Sent postpaid for 7 TRIAL SUBSCRIPTIONS. Premium No. 123.

TAPE MEASURE.—Nickel plated metal case, with spring winding device, operating automatically when center stud is pressed. Three feet by inches on one side, metric system on opposite side of tape. A handy thing for the pocket or the workbasket. Sent postpaid for 3 TRIAL SUBSCRIPTIONS. Premium No. 111,





ROMAN GOLD LOCK-ET.—Exact size of illustration. Opens and holds one picture. Good qual-ity, guaranteed for five years. Sent postpaid for 6 TRIAL SUBSCRIP-TIONS. Premium No. 134.



RUBBER STAMP OUTFIT.—Consisting of 5 alphabets, figures, tweezers, holder and ink pad. Ready for use. Sent postpaid for 4 TRIAL SUBSCRIPTIONS. Premium No. 141.



HOHNER MARINE
3AND HARMONICA.

Highest grade, ten
single holes,20 reeds,
2 brass plates, heavy
convex covers, open
back, nickel plated,
Retail value 50 cents,
Sent postpaid for 4
TRIAL SUBSCRIPTIONS. Premium No. 140.

TEAT PLUG.

—For hard milking cows or leaky teats. Prevents leakage where teat opening is relaxed, and cures hard milking when due to an obstruction in the canal, or abnormal contraction in the small muscle at end of teat. Sent postpaid for 5 TRIAL SUBSCRIPTIONS. Premium No. 125.



FARMER'S CALCULATOR, VETERINARY ADVISER AND FARM RECORD.—The veterinary advice alone makes this book of continued value to every farmer and in addition there are hundreds of tables of weights, measures, interest, dimensions, etc., and a very complete farm record for accounts. Pocket size, 3½x 6½ inches. Cloth covers. 112 pages. Sent postpaid for 3 TRIAL SUBSCRIP TIONS, Premium No. 127.

Handsome Mission Wall Clock

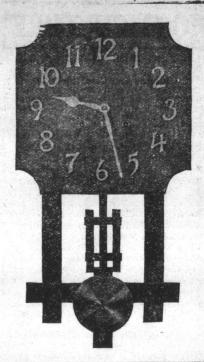
A very beautiful clock that will ornament any home and be an article of permanent usefulness. Finished in dark Mission oak; face 13x13 inches, entire length 25 inches. Gilt cast figures, brass hands and 43/4-inch brass face weight on pendulum.

Fitted with best grade

Gilbert Eight-Day Strike Movement

making it a first-class, serviceable timekeeper.

The same clock can not be bought at retail for less than \$6 to \$8. Given free for 40 TRIAL SUBSCRIPTIONS. Shipped by freight or express. Premium No. 187.



Complete KitchenOutfit

A utensil for every purpose and everything in its place, making the work easier, and saving time and many steps. The steel rack fastens against the wall with space behind it for kettle covers, trays, etc. (covers and trays not included), and a complete outfit of good quality utensils, with black rub-beroid finish, hardwood handles. A convenience that every woman will appreciate. Given for 12 TRIAL SUBSCRIPTIONS. By express. Premium



Fancy Gilt Clock

with Alarm

Gold plated frame of pleasing design, lacquer finish so it will not tarnish, 3-inch ivory finish dial, gilt center, beveled plate glass. Reliable 1 day movement with alarm attachment. Stands 10¾ inches high. Given for 16 TRIAL SUBSCRIPTIONS. By express. Premium No. 182.



Rogers' Genuine Nickel-Silver Teaspoons

Made of solid nickelsilver, no plating of any kind to wear off, being the same material all the way thru. Heavy weight. Six of either style for 6 TRIAL SUBSCRIPTIONS. Twelve of either style (or 6 of each) for 12 TRIAL SUBSCRIPTIONS. Postpaid. Premium No. 155.

Self-Sharpening Adjustable-Tension



Most shears won't cut because you can not adjust the bolt. These avoid that trouble by means of an adjustable bolt regulated by a spring tension which prevents the blades from spreading, is easily adjusted for light or heavy material, gives a clean cut the full length of the blades and will last for years. Eight-inch size, nickel plated finish. Sent postpaid for only 4 TRIAL SUBSCRIPTIONS. Premium No. 159.

Post Card Album For 300 Cards

Just the thing for the post card collector Handsome black alligator grained paper cover, title embossed in gold, reinforced binding; back stitched and stubbed to prevent bulg-ing. Leaves are of heavy black crash paper, perforated to hold 3 cards to a page—2 horizontal and I vertical. Any card can be removed without disturbing the others. Size, 9 inches wide and II inches long, Given free for 5 ITRIAL SUBSCRIPTIONS, if sent by express at the expense of the receiver, or if 10 TRIALS are sent we send charges prepaid. Premium No. 183.



SOWING BUNCHING ONIONS.

Please inform me, thru the M. F. if it is practical to sow Beaulien's Hardy White onion now to be used for bunching the following spring. The soil I shall use will not heave easily.

Eaton Co. F. Hill.

While not having had personal expewith this particular variety, sort. It has been rated by growers as those having had it under culture. Your caution to mulch with straw or some litter in early winter, letting it remain until SPECIAL CARE OF DISEASED RUF- chinery does not supplant the hoe as with hard freezing is over in the spring. This is the safe plan with all varieties, and I think you will meet with success.

TROUBLED WITH BORERS.

Could you tell me thru your paper what to do for my young orchard? It has been set five years and has been cultivated, this year has had wheat cut from the ground. When cutting I found one tree which the borers had killed. Yesterday I found another broken over. Is there anything that can be done for it? The orchard has been doing finely until now.

Eaton Co. F. E. MAPIKLE.

Apple tree horers are the larva of

the apple trees. There are two kinds, ease. The latter are found near the of the year offer opportunity for combatting the pest. In the spring the trunks and larger branches, if both kinds of borwhale-oil soap, and during the fall the grubs or larva can be dug out of their it is not a difficult matter to discover and from the noise of his eating thru the eases. wood. When found he can be dug out with a sharp knife, or killed in his burrow with a small wire—the wire being inserted and forced to where the intruder is working when, by manipulating it he is destroyed. Do not injure more of the bark than is necessary in cutting out the pest.

BREAKING DOWN ONION TOPS.

please tell me when to turn them down? Or, do they have to be turned down at all? I have in an acre of onions. Will you

Usually onions do not need to be broken down. When planted on new and keep green too long to properly mature the bulbs. The source of the seed also furnishes a cause to this late green and do not show any disposition to die above the bulb the latter part of August or the first of September, then thrown about them. it is well to roll or break them down. It is difficult to find a crop where some of the plants remain green after the others have ripened, and where the number is comparatively small it would not pay to roll down, since the onions resulting are generally of lower quality than those ripening from the natural dying of the stems and the operation is more likely to damage those that die down than the others as the stiff stems of the latter offer resistance to the roller. A barrel will not be bruised to any large extent.

ORCHARD OVER-RUN WITH WILD MORNING-GLORY,

Will you please tell me thru the columns of your valuable paper how to destroy the wild morning glory? It is in my orchard and is spreading every year. It is a great pest and I would like to get rid of it. Have tried several remedies, such as covering with salt, slacked lime, also, heavy manuring to smother; but these made it grow still better. Emmet Co.

This plant is persistent as the inquirer.

with the effectiveness of the treatment, ter yet, with a hoe having a couple of the next season. We would suggest that he try clean cul- prongs at the back for digging up the

but leave nothing uncut-almost every rely more on getting the old plants to make of cultivator has teeth for work of throw out new roots and grow new this nature. If it is not advisable to cul- crowns than for them to throw out runtivate, the pasturing of hogs in the or- ners and grow new plants to fruit the chard will likely result in lessening the next season. If the season is wet run-number of plants since hogs relish them ners and new plants will form quite copand will tear up the soil for the root- iously, but if dry, as at present, few new stalks which make the plant so persis- plants will take root and one must rely tent in its occupation of the soil. Where on the old ones. Last year a renewed alfalfa can be grown, few farmers have patch and a newly set one were side by found that the weed will not stay long in side and, if anything, I believe the yield a field seeded to the legume. If this was in favor of the old patch. The plants plant can be started in the orchard (a were mostly old plants also, as last seathink there would be no exception to this procedure that would seem to offer some son was so dry that few new plants difficulty), good might come not alone in formed in the renewed beds. entirely hardy and a profitable kind; at riding the orchard of the morning-glory, least, this is the concensus of opinion in- but also in putting in its place a plant on will be to cultivate about every ten sofar as I have been able to learn from that will furnish nitrogenous matter for days, depending upon the weather, until observation and correspondence with the use of the trees. But alfalfa being October, to hoe out between the estaba deep feeder would not be an ideal plant lished plants, and to keep surplus runground as you mention, is well calculated to grow with trees as both would strive ners cut. This sounds simple, but it is for the work; but I would take the pre- to occupy the same root feeding ground. a rather slow, laborious process.

FAGE.

It has reached the point where seemingly there is nothing but eternal war- growers. fare against fungus and bacterial diseases and insect pests. Preventive measures are better than curative, but with all possible care along these lines they still steal in upon us to our hurt. But doubtless, the preventive efforts save much is very simple. Good fruit should be loss that otherwise would follow. The vine crop ruffage is a special source of danger and the only safe plan is to dry and burn them just as soon as they cease to bear. If thrown on the compost heap Apple tree borers are the larva of their fertilizing value will be trifling combeetles that lay their eggs on the bark of pared to the risk of spreading the dis-When burned they are safely out viz: the flat-headed and round-headed of harms way, and the ashes as far as they go, will be of some value. Wherever in the cider mill. The mill and all utenground while the former generally work club root is present in the cabbage, caulabout the larger branches. Two seasons iflower, or any member of the crucifera family, all diseased plants should be burned or boiled, root and branch; and mentation. If all sorts of germs, which under no circumstances should they be are found on dirty and decayed fruit, are ers are troubling, may be painted with left to lie on the ground, or be fed out. put in the cider, a good quality of vinegar The compost heap is a good thing in its way; but without very much care as to burrows. After a few have been found what is consigned to it, and the after pected from one bushel of apples depends treatment, it easily becomes a hotbed for upon the machinery and variety of apthe enemy by the residue from his work the breeding of insects and fungus dis-

Wayne Co.

J. E. MORSE.

BERRY NOTES.

The old patch of strawberries is now thoroly cleaned out and the rows are be pulped by hand with wooden mauls making a good start considering the very in a wooden trof. The juice can be ex dry weather. This patch is in a peach tracted very effectually by this method; and apple orchard four years old, the and, where only enough vinegar is wantwhole comprising one and one-half acres, ed for home use, it is not a difficult matbut as the trees take up a good deal of ter to secure it in this way. room there is perhaps an acre of berry The best receptacles in which to put foul, as half of it has been fruited two barrels-preferably those which have years and the manure applied has brot held vinegar previously, since fermentain a good many weed seeds. It was also tion commences sooner when the fermore difficult to clean up on account of menting organism is present than when land, a freshly turned down sod, or on the trees causing more hand work. How- it must find its way into the liquid from soil receiving a heavy application of ever the work was done at a cost of outside mediums. The common name coarse manure, the tops often grow larger \$27.35, including the mowing, raking and for this organism is "mother-of-vinegar," hauling the mulch, plowing middles, har- which in the course of its life processes rowing, cultivating, and hoeing and pull- brings about a somewhat complicated ing all weeds. All the ground was worked change of the sugar in the apple juice, growing tendency. If the tops continue over with the cultivator or hoe. Part of to acetic acid, which is the sour printhe mulching was left around the trees, ciple in vinegar. and in hoeing the larger weeds were

of growing a patch of spring set plants have free access to the liquid to support of one acre in an orchard one year old the organism. Second, the temperature may be interesting. We will leave out must be favorable for the growth of the the cost of fertilizing in both cases. The fermenting agent. If possible, the bartotal cost of plants, preparation of ground rels should be placed in a room where and care of this acre of plants is \$60.88. the temperature will be fairly constant This includes the layering of the runners at 70 to 75 degrees, placed on their sides which is not quite completed, and will in order to give more surface to the atleave the patch so about the same amount mosphere, and filled with juice to within of care will be required as for the old six or eight inches of the bung hole. offer resistance to the roller. A barrel bed. Of this amount, \$26.25 was for The hole should be carefully covered makes a good implement for rolling down the tops; it is light enough that the bulbs plants were home grown, so perhaps a entrance of germs and vermin. This will not be brighted to any large extent. part of this should be deducted.

about twice as much to grow spring set liquor. It is a great mistake to allow the clean out and renew an average old bed, sorts of germs enter therein.

tivation, using teeth that run shallow ground without cutting the roots. Wel

The care of both plantations from now Berry growing is an occupation in which mamany farm crops. A fortune awaits the man who can invent a practical machine hoe and runner cutter for strawberry

Calhoun Co. S. B. HARTMAN.

The process of making cider vinegar used, but unmarketable fruit will make a good grade of vinegar, provided all defective parts of the apples are removed. The finished product will be no better

than the quality of the apples used.

MAKING CIDER VINEGAR.

Perfect cleanliness is a very necessary feature. Apples that are picked up from the ground are usually dirty and should thoroly washed before being placed be sils used in the making should be kept well cleaned. To use unclean fruit or unclean vessels simply invites bad fermust not be expected.

The amount of juice that can be exples used. With large machinery four gallons of juice can be extracted from one bushel of a good variety of cider apples. I have recovered three gallons of juice from one bushel of Wine Saps with a modern hand mill.

Where one has no mill the fruit can

The patch was becoming quite the cider are molasses kegs, or whiskey

To make a good grade of vinegar two things are very essential during the proc-A comparison of this expense with that ess of fermentation. First, the air must

cover readily permits the gases to escape I think that on an average it will cost and should never be allowed to touch the plants up to the middle of August as to barrels or kegs to foam over, as all

We also lose the use of the ground for After a few days raise the cotton and a season in growing the new beds, so note the condition of "head" on the everything considered, it would seem as liquid. It should become thick and have if the renewing of beds that have fruited a dark appearance. As soon as the liquid but are in fairly good condition is a pay- becomes comparatively quiet, it will be ing practice. If the runners are layered found fairly bright and limpid. Under the first season and the surplus ones ordinary conditions some time is required kept cut, the rows are established and before a good product can be made. This plant is persistent, as the inquirer kept cut, the rows are established and before a good product can be made. has found. Many times the plant will after mowing and raking, the stubs of the When sour enough for use the vinegar yield to the remedies which he has tried, old plants are spaced so as to be easy can be drawn as required and strained, but the locality often has much to do to hoe around with a narrow hoe, or bet- and the "mother-of-vinegar" left for

W. H. UNDERWOOD.

Silence!



The instinct of modesty natural to every woman is often a great hindrance to the cure of womanly diseases. Women shrink from the personal questions of the local physician which seem in delicate. The thought of examination is abhorrent to them, and so they endure in silence a condition of disease which surely progresses from surely progresses from bad to worse.

ad to worse.

It has been Dr. Pierce's privilege to cure a great many women who have found a refuge for modesty in his offer of FREE consultation by letter. All correspondence is held as sacredly confidential. Address Dr. R. V. Pierce, Buffalo, N. Y.

Dr. Pierce's Favorite Prescription restores and regulates the womanly functions, and regulates the womanly functions, abolishes pain and builds up and puts the finishing touch of health on every weak woman who gives it a fair trial.

It Makes Weak Women Strong Sick Women well.

You can't afford to accept a SECRET nostrum as a substitute for this non-alcoholic medicine OF KNOWN COMPO-

ROYAL -**Hydrated** or Crushed AGRICULTURAL LIME

is the strongest Lime in Ohio, and greatly benefits the soil. Same is put up in packages easy to handle. It is ready for the drill. Experimental Stations advocate its use. Write or wire us for prices for fall seeding. Made only by

SCIOTO LIME & STONE CO., Delaware, O.

AGRICULTURAL LIME

Prices and information furuished on application. The Woodville Lime & Cement Co., Tolede, Ohio.

Best Milling Variety, Good Yielder, Sure Cropper.

Our crop pure and carefully prepared for sowing. Also Poole, Mammoth White Rye, New Crop Timothy. Write for samples, circulars, prices. The O. C. Shepard Co., 20 B St., Medina, O.

SEED WHEAT; CYPSY, bearded highest yielder at Ohio Experiment Station. Poole, smooth, next highest yielder at the Station. Fultz, smooth, the old reliable standard. This wheat is grown entirely on our own farms, by ourselves especially for seed purposes. It is recleaned free from all foul seeds and put up in new bags. Price in lots of 10 bu. or over \$1.50 per bu.; less amounts \$1.50 F. O. B. Medina. Our orders always exceed our supply so order early and avoid disappointment. Free samples. C. B. ABBOTT & SONS, Chippewa Lake, O.

WINTER SEED WHEAT 62 Bushels Per Acre and Turkish Red—two hardlest varieties, surest croppers and biggest yielders; made world's record. Samples, prices and descriptive circulars FREE. Mention this paper, Address RATEKIN'S SEED HOUSE, Shenandoah, Iowa.

SEED WHEAT!

400 acres. Grown especially for seed purposes in the wheat belt of Lancaster Co., Pa. Return of seed allowed and money refunded if not satisfact-ory. The best varieties smooth and bearded. I issue A. H. HOFFMAN, Bamford, Pennsylvania.

JONES LONGBERRY WHEAT—pure clean seed \$1.25 per bu.; best bags to hold 2½ bushels 20 cents each. J. W. CHAPIN, Eden, Ingham Co., Mich.

SEED WHEAT.

A limited amount of White Winter Wheat, grown especially for seed. The best we have ever produced. Now ready for delivery. Price, \$1.25 per bu.; bags extra. Send for sample.
WOODCOTE STOCK FARM, Ionia, Mich.

When writing to advertisers please mention the Michigan Farmer.

FARMERS CLUBS

Address all correspondence relative te the organization of new Clubs te Mrs. W. L. Cheney, Mason, Mich.

Associational Motto.—

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

Associational Sentiment.—

The farmer's most valuable asset.

Associational Sentiment.—

The farmer's he garners from the sent the primal wealth of nations.

THE CLUB AND THE LOCAL FAIR.

While the Farmers' Club Fair has come to be a special feature of club work in many clubs and is to be highly recommended for emulation by other clubs, yet for all clubs that do not feel like adding this feature to their regular work, the local or county fair offers an opportunity to make a special club, exhibit, which will prove good advertising for the club and add to the interest of the membership not a little. Several clubs in the state have done this with entire success, and even in case a club fair is held, an exhibit on this kind will prove advantageous for any club, whose membership is interested in a local fair held within the territory to which the club is tributary. Arrangements could doubtless be made with the fifteers of the local fair for special exhibition space for such an exhibit, and in all conveniently compete for prizes, as would be the case in several counties in the county, including the house of correction for juveniles, later changed to the reform school for boys and now the Indicases where more than one club could conveniently compete for prizes, as would be the case in several counties in the county, including the house of correction for juveniles, later changed to the reform school for boys and now the Indicases where more than one club could conveniently compete for prizes, as would be the case in several counties in the county, including the house of correction for juveniles, later changed to the county, including the house of correction for juveniles, later changed to the reform school for boys and now the Indicases where more than one club could conveniently compete for prizes, as

SHALL WE AS FARMERS SEEK TO BECOME SPECIALISTS?

Synopsis of paper read at the August meeting of Columbia Club, of Jackson Co., as reported by the correspondent:

The term specialist is applied in a general var, to a person who follows a par-ticular line or branch of some business. These who have made the greatest inventions and discoveries in science, those who accomplish mighty achievements of this progressive age, have all been specialists. Life is too short to learn everything, even in so simple a business as farming. There are so many helps in the way of experiment stations, both state and national, as well as the agricultural press, that anyone who desires ought to be able to make a success of some special line of farming. To become a specialist on the farm one need not necesarily raise but one crop, but only to make that one of the most importance. Follow a system that is adapted to one farm and locality, and stick to it from year to year, and be satisfied only with the best in whatever we adopt. Farmers should study feeds and feeding, and become specialists along this line.

CLUB DISCUSSIONS.

CLUB DISCUSSIONS.

Discuss Local Market.—The August meeting of Columbia Club, of Jackson Co., was entertained by Mr. and Mrs. J. B. Freeman and Mr. and Mrs. Sherman Gallup at Evergreen Hill, the home of the latter. The commodious and shady lawn made an ideal place for the meeting which was called to order by President Crego. After the usual opening exercises and the routine business, the secretary presented a communication from the Chamber of Commerce of Jackson, regarding a public market in the city. It was voted to leave the discussion of the subjects to the next meeting. Roll call, "What Is My Duty Toward the Club?" was quite well responded to, some of the responses being decidedly humorous.

Hold Old-Fashioned Spelling Match.—The interest of the day centered around the "spelling match." The president appointed Mrs. Vining and Geo. Friedrich to choose sides, and Mr. Freeman as schoolmaster. He produced an old-fashioned spelling book and the race began, Mrs. Vining's side winning by a narrow margin. This closed the program, after which a bountiful club supper, including ice cream, was served on the lawn. The next meeting will be held with Mr. and Mrs. Halladay, and will be the first Saturday in September instead of the second and will be an all day meeting.

Early History of Ingham Co.—The August meeting of Ingham Co.—The August meeting of Ingham Co. Farmers' Club was held at Coldwater Farm, with Mr. and Mrs. N. A. Crittenden, and was one of unusual interest. As President Ives was not present, the vice president, Mrs. W. H. Taylor, called the meeting to order and announced the annual excursion to the M. A. C., Thursday, Aug. 26, and hoped as many would go as possible. Judge Bristol gave an interesting paper, "The Early History of Ingham County." In part he said: "Perhaps no other county has changed any more, early covered by forests and the idea seemed to be to cultivate. The Indians were

mixed diet.

First Aid to the Injured.—Dr. Thomas arrived in his auto and gave some plain and practical hints about the first aid to the injured. He treated of fractures, sprains and wounds, cautioning one not to give too much stimulant, and especially in case of a wound to keep everything scrupulously clean; as regards poisoning, he regarded the liquid fly poison as dangerous, and spoke of carbolic acid, paris green, arsenic, chloroform and others. As regards burns, he spoke of those from hot water, from fire and from carbolic acid, and to keep the burn covered will save the ugly scar, one of the best ointments for home use was made of equal parts of lime water and sweet oil. Convulsions and fits in a child are like chills in an adult and should be treated the same. Dr. Thomas was given a vote of thanks for his practical talk and was made an honorary member for three years. The next meeting will be with Mr. and Mrs. Irving Sanford, the second Saturday in September and will be a temperance program. temperance program.

CLUB PICNICS.

Odessa Farmers' Club.

Odessa Farmers' Club.

With heavy skies and every indication of rainy weather the Lake Odessa Farmers' Club held its annual picnic in the Bosworth Grove, and in spite of the threatening weather a goodly number were present to enjoy the occasion. Owing to the uncertainty of the weather many did not arrive at the grove until it was about time to serve dinner and the program which was advertised for ten o'clock in the morning was postponed until after the noon hour.

As is always the case with this organization, a dandy picnic dinner was spread, two large tables were necessary to accommedate the crowd. The first tables seated 96 and the second seating numbered 28. The good ladies of the Club came well prepared to satisfy the most hungry heart and the result was of perfect satisfaction to all.

Following the dinner, President Curtis called the gathering to order before a platform, where an interesting program was given. Following the completion of the program, Z. W. Carter opened the discussion of the club enlargement and among other things emphasized the statement that any organization that becomes satisfied with its present conditions soon dies. Mr. Carter's remarks were followed by several suggestions on the discussion that led to the motion of the appointing by the president of a committee of three to act with the officers of the club on the matter of club enlargement. The committee is as follows: John Klaun, M. L. Foght and Frank Aldrich. Following the discussion Miss Carter read a very amusing and interesting reading on the subject "The Financial Difficulties of the Farmers' Wife."

President Curtis announced that the next regular meeting of the club would be held a week earlier than planted on the program of the club would be held a week earlier than planted on the program of the club would be held a week earlier than planted on the program of the club would be held a week earlier than planted on the subject.

rancial Difficulties of the Farmers' Wife."

President Curtis announced that the next regular meeting of the club would be held a week earlier than planned on accounty of the Tri-County Fair, which will bring the next meeting Saturday, Sept. 4, at the home of Mr. and Mrs. William Beard.

Joint Picnic a Success.

The joint picnic of the Marion, Genoa and Howell Farmers' Clubs, at Gregory's Grove, drew a good sized crowd and was very enjoyable. A bounteous dinner at noon was a pleasant feature, of course. In the afternoon, A. M. Wells presided for the program, which was a good one thruout. R. D. Roche gave the address. A ball game, boating and general visiting were in order in the afternoon.

ONE GOOD TURN Tell your neighbor of our great trial offer to January 1 for only 10 cents.

GRANGE

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

THE SEPTEMBER PROGRAMS.

State Lecturer's Suggestions for First Meeting.

Power on the farm and in the home, rater, horse, windmill and engine.

Presented by a man, discussion led by woman.

stock as a factor of successful agriculture. Reading of a favorite poem, by the

hibitors.

2. Definite items to be looked for and spectators.

2. Definite items to be looked for and spectators.

topic) Entertainment features furnished by boys and girls who are going away to school this fall.

THE POMONA GRANGE PROGRAM.

County Pomona, recently favored the writer with a program of their Pomona Grange meeting and rally to be held this month. There are some features of this program which I desire to notice in this connection. First, the subjects are appropriate and timely. Second, the parties chosen to handle them are fully competent. Third, the work is so distributed Grange meeting and rally to be held this tent. Third, the work is so distributed as to insure a good attendance from all dinner. On reassembling the different Granges not too remote from the place committees were appointed, after which of meeting. A reception committee has the lecturer's program was taken up. Bero. E. E. Stroud, Master of Maple Grove, gave a hearty welcome which was and so far as I can discover the little responded to by Henry Plack treasures. and so far as I can discover the little responded to by Helly Diack, details that contribute so largely to the success of any meeting have not been overlooked. One feature of the program is the exemplification of the third degree the introduced. He was at his best and kept the crowd laughing at his many stories which illustrated his splendid talk on the strength and weakness of organization. and so far as I can discover the little Grange.

The motive in mentioning this program is not, primarily, to extol Antrim County Pomona. We have designed, rather, that it should serve as a text from which we would write our convictions of what the Pomona Grange ought to be in a general way along the line of its literary work.

The Pomona Master should be a good presiding officer. He should be watchful, tactful and not a bit afraid of work. But after he has done his best, the Pomona will fail to accomplish its object if the lecturer has not done her part. The Pomona Grange program is the one great feature upon which the success of this organization rests. The subjects should be timely to create the largest possible interest. They should be practical in order that the time spent in discussing them may be wisely employed. For example, the management of a winter dairy is not a good topic for a May meeting, and farming in the Argentine Republic need not be discussed at great length until more of the problems on Michigan farms have been satisfactorily solved.

The right persons should be selected to handle the subjects on the program. It is the mission of the subordinate Grange to discover and bring out the talent in the community where it is lo-That many of those placed upon the subordinate Grange program should fail is inevitable. That many others should do poorly is but to be expected, for the subordinate Grange is the primary room in the Grange school. Its mission is in part to do a great deal of preparatory work. Here, the diffident member who hitherto has been unable to talk or even think while standing upon his feet in the presence of others, overcomes his bashfulness. Here the man who has farmed thus far without a plan, learns the value of crop rotation, and the discouraged one gets a new inspiration and discovers larger possibilities in the fields he has hitherto tilled with unsatisfactory results. Here subjects pertaining to the and question of importance to the neighborhood, are discussed. Here great national questions are handled-sometimes, it is true, by those who know little about them, but there is generally someone among the members who is able and willing to correct errors and, even tho conclusions temporarily arrived at are

doing.

But the work of the Pomona is different. Only those who are fully competent should be assigned places on a Pomona Grange program. It is neither a kindness to the individual nor fair to those in attached the place one on a program of the place one one one place one one one place one one one one pla should command the very best talent in

the county in which it is located. Questions that strengthen public sentiment along desired lines need to be ably discussed. The best music obtainable should be provided for these occasions. The program should be of such a character that people will look forward to it for weeks and plan to attend the meeting. Such a program will make the Pomona of great service as a moulder of public opinion in the community.

But, again, the exemplification of the degrees of the subordinate Grange by competent degree teams should frequently form a part of the Pomona program. The object of degree work is to reveal the Grange to the candidate, and it should chaplain.

Preparation for the fall fairs.—1. Defi- be well done. In one year, under a preparation for the fall fairs.—1. Defi- be well done. In one year, under a preparation for the fall fairs.—1. Defi- be well done. In one year, under a preparation of supervision, the fall fairs.—1. Defi- be well done. In one year, under a splendid system of supervision, the fall fairs.—1. Defi- be well done. In one year, under a preparation for the fall fairs.—1. Defi- be well done. In one year, under a preparation for the fall fairs.—1. Defi- be well done. In one year, under a preparation for the fall fairs.—1. Defi- be well done. In one year, under a preparation for the fall fairs.—1. Defi- be well done. In one year, under a preparation for the fall fairs.—1. Defi- be well done. splendid system of supervision, the Granges of Michigan accomplished more studied by spectators. in degree work than could have been (Assign a man and woman to each sub- done in a decade without special effort. in degree work than could have been It is the privilege of the Pomona to gather up and conserve all the forces that tend to strengthen the organization and make it answer its purpose in the W. F. TAYLOR. world.

Mrs. Anna R. Doyle, lecturer of Antrim MEETING OF MICHIGAN'S LARGEST POMONA.

organization.
The comm The committee on Pomona Granges recommended the securing of traffic arrangements for the 500 Charlevoix Patrons who are going to State Grange and the holding of special meetings for the purpose of conferring the fifth degree. The committee on subordinate Granges recommended the use of special day programs. Reports of subordinate Granges showed the county's total membership to be about 900, with Grange property valued at \$11,000. South Arm Grange, was declared the banner Grange of the county.

In the evening the degree of Pomona was conferred in full form on a class of 37 by the crack fifth degree team from Marion Center. Next meeting will be held with Pine Lake Grange in October, Worthy Master Hull being chosen as state speaker. committee on Pomona Granges

Marion Center. Next meeting will be held with Pine Lake Grange in October, Worthy Master Hull being chosen as state speaker.

Maple Grove Grange, with which the meeting was held, is one of our newer Granges but has property valued at over a thousand dollars, located in one of the beauty spots of Northern Michigan, and is composed of hustlers, as was demonstrated by the splendid entertainment given Pomona in the way of good-fellowship, good music and good meals. August 28 this Grange will hold its second annual picnic, Bro. John A. Ketcham begust 28 this Grange will hold its second annual picnic, Bro. John A. Ketcham be-ing the principal speaker.—Glenn M. DuBois.

AMONG THE LIVE GRANGES.

Peninsula Grange is trying the experiment of holding its summer and fall meetings at the homes of members rather than in its hall as it is believed that in this way a better attendance can be se-cured during this busy season, which is is way a better attendance can be se-red during this busy season, which is ore than usually busy for people in the uit sections.

more than usually busy for people in the fruit sections.

Maplewood Grange.—A Grange of 32 members was organized Aug. 18 at the Fuhriman school, Delta Co., by State Deputy Wilde. The following are the officers: Master, S. S. Shell; overseer, Joseph Schultz; lecturer, Clara Snell; steward, Lowell Thibault; ass't steward, Edward Fuhriman; lady ass't steward, Rose Thibault; chaplain, Sarah Schultz; treasurer, Geo. Fuhriman, Sr.; secretary, James Snell; gate keeper, Robert Snell; Ceres, Edna Snell; Pomona, Mrs. J. Mero; Flora, Florence Fuhriman.

Grain Topics compose the program planned by Grand Traverse Grange for its Ceres meeting. They are stated as follows: The annual corn contest and the benefits that we are deriving from the same. Michigan vs. Illinois as a corn

benefits that we are deriving from the same. Michigan vs. Illinois as a corn producing region. Does it pay for us to try to raise wheat? Grain crops other than corn and wheat. Grain farming vs. potato farming. Grain farming vs. fruit farming.

COMING EVENTS.

Pomona Meetings.

the conclusions temporarily arrived at are erroneous, the work is always worth doing.

But the work of the Pomona is different. Only those who are fully competent about the assigned places on a Pomona Speak of the conclusions with Paris Grange, Wednesshould be assigned places on a Pomona Speak of the conclusions when the conclusions were the conclusions at the conclusions when the conclusions are speaked by the conclusions are speaked by the conclusions are speaked by the conclusions and the conclusions are conclusions at the conclusions and the conclusions are conclusions at the conclusions and the conclusions are conclusions at the conclusions are conclusions at the conclusions are conclusions. The conclusions are conclusions at the conclusions are conclusions.

Charlevoix Co. Granges will hold second annual picnic with Maple Grove Grange, Saturday, Aug. 28.

DETROIT WHOLESALE MARKETS.

August 25, 1909. Grain and Seeds.

Grain and Seeds.

Wheat.—The margin between the high and low prices for cash wheat was narrower last week than for the week before. Futures, on the other hand, showed more variation and did not respond to the same influences that the cash trade did. A bearish feeling has crept into the trading circles and so strong is it that there is no organized effort on the bull side of the trade to check the movement. Railroads leading from the spring wheat sections are preparing to move a big crop and every condition seems present to supply the long wanting market with the cereal. The shorts on Tuesday were a little excited, however, over reports of rain in the harvesting and threshing districts. Liverpool is not giving the deal much support. Reports from Michigan farmers who have threshed shows the yield to be about what was anticipated. One year ago the price for No. 2 red was 95c per bu. Quotations for the week are:

No. 2 No. 1 No. 3

	No. 2	No. 1	No. 3		- 1115
	Red	White	Red.	Sept.	Dec.
Thurs	1 081/6	1.081/2	1.051/2	1.08 1/2	1.00 /2
Uni	1 0814	1.084	1.00 1/4	1.00-/4	1.0074
Cot	1 081/4	1.081/4	1.054	1.08/4	$1.06\frac{1}{4}$
Mon	1 071/4	1.071/4	1.04 1/4	1.06%	1.00/2
Tipe	1.07	1.07	1.04	1.00 /2	1.0072
Wed.	1.07	1.07	1.04	1.061/2	$1.05\frac{1}{2}$
OF STREET, STR		hor he			

The state of the s																10. 0
															No. 3	Yellow.
Thursday	٠.														713/4	731/4
Friday														•	711/2	73 73
Saturday			٠	٠				٠	٠		٠	٠		•	711/2	73
Monday	٠,					٠		•	٠	٠	•	٠		•	71½ 72	731/2
Tuesday															= 0	731/2
Wednesday			٠		•		٠		٠		٠	٠	٠	•		
				-			_		_		_			-	*** 00***	nlaining

400																	AA TITE	· ·	-	
Thursday													,			٠	40			1/4
Friday				٠.			•		•	•	٠			•	٠		40		39	
Saturday																	40.		38	
Monday													٠		٠	•	39		38	
Tuesday					٠	٠									•		39		3	
Wednesd	a	У	*									•	٠		•		39			
			٠.					_	_	11	10	. 4			_	210	nof	has	ng	ic

Beans.—An excellent crop of beans is growing, but it will take a good harvest to replenish the supply, since the last crop was a short one. There is no trading to speak of and nominal quotations for cash goods have dropped a nickle during the week. October continues at the price reported a week ago. Prices for the week are:

Cash. Oct.

	Cash.	Oct.
Thursday		\$2.00
Friday	2.20	2.00
Saturday	2.20	2.00
Monday	2 20	2.00
Tuesday	2.20	2.00
wednesday		

Cloverseed.—The approach of hulling season has caused prices to take a dip downward—a decline of about 15c being noted during the past week. Prime alsike is selling around \$7.60 per bu. Quotations for the week are:

Oct. March.

																	OCt.	7.4.1	Lai Cii.	
Thursday																	\$7.35		\$7.40	
Friday																	7.40		7.45 7.35	
Saturday				 	•	•	٠	•	•	٠	•		•	•	•	•	7.30		7.25	
Monday . Tuesday			• •	 •	•	•	•	•	•	•	•	•	•	•	•	•	7.25		7.30	
Wednesday	,	•	• •		•	•		•		:	:	:	:	:	:	:	7.25		7.50	
Pus																		a	good	

Hye.—A moderate demand and a good supply has lowered values. But trade is steady at the decline. Cash No. 1 is selling at 68c per bu, which is 2c below last week's price.

last v		-	ì	i	is	εí	b	1	e	5	òι	u	р	р	ı	У	of Grain.	
														Τ	ŀ	ni	s week. Last	week.
Wheat	t																	283,000
Corn																٠	.2,243,000 2,	$124,000 \\ 442,000$
Oate																	.3,413,000 2,	154,000
Rye .												٠	•	•	•	٠		205,000
Barley									٠			٠			٠	•	. 108,000	200,000

Flour, Feed, Provisions, Etc.

Flour.—Market active, with prices road
50c lower than a week ago. Quotations
one og follows:
Clear\$5.25
Ctroight 0.40
Patent Michigan 5.85
Ordinary Patent
Hay and Straw - Market for both hay
and straw is unchanged. Carlot prices
on track are: No. 1 timothy, new

and straw is unchanged. Carlot prices on track are: No. 1 timothy, new \$13@14; No. 2 timothy, \$12@13; clover, mixed, \$11@12; rye straw, \$7; wheat and oat straw, \$6 per ton.

Feed.—Bran and coarse middlings are lower. Bran, \$25 per ton; coarse middlings, \$26; fine middlings, \$30; cracked corn, \$30; coarse corn meal, \$30; corn and oat chop, \$28 per ton.

Potatoes.—Market is being quite well supplied with home-grown tubers. Supply fair and demand good, with prices ranging from 60@65c per bu.

Provisions.—Family pork, \$21.50@22.50; mess pork, \$21.50; light short clear, \$21; heavy short clear, \$22.50; pure lard, 13½c; bacon, 15@16c; shoulders, 11c; smoked hams, 14c; picnic hams, 11c.

Dairy and Poultry Products.

Dairy and Poultry Products.
Butter.—What happened this past week

in the creamery butter deal has been expected by dealers. The production is not as large as usual and the demand continues brisk. Dairy butter, also, enjoyed an advance. Quotations are: Extra creameries, 28c; firsts, 27c; dairy, 21c; packing stock, 20c per lb.

Eggs.—Values have not shifted, leaving the market unchanged and steady with last week's quotation maintained. Fresh firsts, case count, cases included, are quoted at 22c per doz.

Poultry.—There is not a great deal of activity in poultry trading just now and prices remain on the same basis as a week ago. Quotations are: Hens, 13½c; roosters, 9@10c; ducks, 10@15c; gesse, 8@9c; turkeys, 16@17c; broilers, 16@17c.

Cheese.—Steady. Michigan full cream, 15½c; schweitzer, 20c; brick cream, 16½c per lb.

Calves.—Choice to fancy, 10@11c; ordi-

nary, 9@10c per lb.
Fruits and Vegetables.
Cabbage.—Lower. Home-grown, er bbl.
Tomatoes.—Declined and now selling

t \$40@50c per bu. Onions.—Domestic offerings, \$2 per

Onions.—Domestic offerings, \$2 per bbl; Spanish, \$1.50 per crate.
Pears.—Bartlett, \$1.25@1.50 per bu; common, 75c@\$1.
Grapes.—Delaware, 40c; Niagara, 35c; Concord, 30c per pony basket.
Apples.—Home growth, 85c@\$1 per bu.
Peaches.—Michigan grown, baskets, \$1@1.75; pecks, 25@30c.
Blackberries.—Lower at \$2@2.50 per bu.
Huckleberries.—Higher, \$3.50@3.75 per bushel.

Tues. ...1.07 1.07 1.04 1.06½ 1.05½ 1.05½ Wed. ...1.07 1.07 1.04 1.06½ 1.05½ 1.05½ Corn.—There has been little news to disturb conditions in the corn belt. Rains aided the growing crop in many sections and but few places are suffering from drought or excessive moisture. The demand and supply kept prices on last week's basis and the movement of grain is small. One year ago the price for No. 3 corn was 49½c per bu. Quotations for the past week are:

No. 3

Grand Rapids.

Grand Rapids.

No radical changes are noted in the grain market this week. Wheat is off 1c, oats 1c, while No. 2 yellow corn has advanced 3c. In dairy products, creamery butter went up 1½c, dairy 1c. The egg market is unchanged. While dressed hogs remain at 10@10½c, the market is easier. Spring ducks are off 2c. First early Crawford peaches have arrived, selling at \$1.50. First plums are also in, ranging for 50@85c, Dutchess bringing the outside price. Home-grown muskmelons are bringing \$1.25@1.50 per bu. Tomatoes were higher, bringing 90c@\$1. Seeds are weaker, alsike now retailing at \$9, while clover is off to \$7.80. Potatoes are selling around 60c.

Quotations follow:
Grains.—Wheat, \$1.01; oats, 39c; corn, 75c; buskwheat, 55c per bu; rye, 60c. Beans.—Machine screened, \$1.90.

Butter.—Buying prices, Dairy, No. 1, 22@23c; creamery in tubs, 28c; prints, 27@28½c per 1b.

Eggs.—Case count, 21@22c.
Potatoes.—60c per bu.

Peaches.—\$1.25@1.50 per bu.

Huckleberries.—\$1.75; blackberries. \$1.25; apples, 50@85c.

Vegetables.—Tomatoes, 90c@\$1 per bu; sweet corn, 10c doz; cabbage, 25@30c doz. Cattle.—Cows, \$2.50@4 per cwt; steers

\$1.25; apples, 50@85c.
Vegetables.—Tomatoes, 90c@\$1 per bu;
sweet corn, 10c doz; cabbage, 25@30c doz.
Cattle.—Cows, \$2.50@4 per cwt; steers
and heifers, best quality, 3@5½c; dressed
mutton, 9@10c; dressed veal, 6@9c;
dressed beef, cows, 5@6½c; steers and
heifers, 7½@9½c.
Hogs.—Dressed, 10@10½c.
Live Poultry.—Fowls, 10@12c; roosters,
7@8c; turkeys, 14@15c; spring chickens,
14@16c; spring ducks, 11@12c.

Chicago.

New York.

New York.

Butter.—Firm and higher. Western factory firsts, 20@22c; creamery specials, 29@29½c.
Eggs.—Irregular. Western first to extras, 22@25c; seconds, 29@21c.
Poultry.—Dressed. Higher butt quiet. Western broilers, 15@21c; fowls, 16½@17½c per 1b. Live.—Steady. Western chickens, 18@19c; fowls, 17@17½c.
Grain.—Wheat, No. 2 red, \$1.07 per bu; corn, No. 2, 81c for old; oats, mixed, 42@48c for new.

Boston. Wool.—The outlook for the woolen fab-Wool.—The outlook for the woolen fabric trade is very promising and manufacturers are scouting for raw material to keep up with the demand. The amount of trading the past week was heavy and prices continue firm. The following are the leading market quotations: Ohio and Pennsylvania fleeces—XX, 35@36c; X, 33@34c; No. 1 washed, 40@41; No. 2 washed, 40@41c; fine unwashed, 27@28c; half blood, 35@36c; three-eighths blood combing, 35@36c; quarter blood combing, 35@36c; quarter blood combing, 36@36c; delaine washed, 39@40c; delaine unwashed, 31@32c; half blood unwashed, 31@35c; three-eighths blood unwashed, 34@35c; three-eighths blood unwashed, 34@35c; three-eighths blood unwashed, 34@35c; quarter blood, 33@34c. Kentucky, Indiana and Missouri—Three-eighths blood, 34c; quarter blood, 32@33c.

Butter.—Market firm at 28c per lb., which is an advance of 1½c over last week's price. Sales for last week amounted to 833.400 lbs., compared with 939,200 lbs. for the previous week.

THE LIVE STOCK MARKETS.

Buffalo.

Buffalo.

August 23, 1909.

(Special report by Dunning & Stevens, New York Central Stock Yards, East Buffalo, N. Y.)

Receipts of sale stock here today as follows: Cattle, 150 loads; hogs, 9,600; sheep and lambs, 8,000; calves, 1,200.

The cattle market today was fairly active and the best cattle on the market sold steady at last week's prices. Butcher cattle sold from 10@15c higher and stockers from 25@30c higher than last week. The best fresh cows and springers sold about \$2 per head higher.

We quote: Best export steers, \$6.50@6.75; best 1,200 to 1,300 lb. shipping steers, \$5.85@6.10; best 1,100 to 1,200 lb. do., \$5.60@5.85; medium 1,050 to 1,150 lb. steers, \$50.525; light butcher steers, \$4.50@4.75; best fat cows, \$4.50@3.25; trimmers, \$1.75@2; best fat heifers, \$5@5.50; fair to good, \$3.75@4; light cows, \$3.30.3.25; trimmers, \$1.75@2; best fat heifers, \$5.65.50; fair to good, \$4.50@4.75; common, \$3.75@4; best feeding steers, 800 to 900 lb. dehorned, \$4.50@4.75; 700 to 750 lb. dehorned, \$4.50@4.75; room room, \$2.00; best bulls, \$4.00.450; bologna bulls, \$3.50@3.75; stock bulls, \$3.30.3.25; best fresh cows and springers, \$47@57; fair to good do., \$30.75@4; light stockers, \$3.25@3.50; best bulls, \$4.00.450; bologna bulls, \$3.50.3.75; stock bulls, \$3.60.25.

The hog market opened fairly active on all the good grades but slow and draggy on the common kinds. The good hogs are all sold but there is some common stuff unsold. We would advise caution in buying grassy hogs.

We quote: Medium and heavy, \$8.45@8.35.50; mixed, \$8.40.8.45; best yorkers, \$8.35.8.40; light yorkers and pigs, \$8.25.75@6.25.

The lamb market today was active and everything is sold. We think the pros-

8.30; roughs, \$7.10@7.10, Stage, 6.25.

The lamb market today was active and everything is sold. We think the prospects steady for the balance of the week. We quote: Best lambs, \$7.65@7.85; fair to good, \$6.50@7.60; culls, \$5.25@5.75; skin culls, \$4@4.75; vearlings, \$5.25@5.50; wethers, \$5@5.10; ewes, \$4.40@4.75; cull sheep, \$2@3.25; best calves, \$9.50@9.75; fair to good, \$7@9; heavy, \$4@5.

Chicago.

Chicago.

August 23, 1909.
Cattle. Hogs. Sheep.
Received today23,000 30,000 28,000
Same day last year. 31,183 25,961 27,230
Received last week ..51,992 88,703 110,912
Same week last year.52,489 95,928 91,002
Cattle were marketed quite freely last week, with supplies consisting to a great extent of plain to pretty good steers and on Monday and Wednesday, much the biggest days, good supplies of good to choice steers, but buyers would have been better pleased if receipts of western range cattle had been on a larger scale. choice steers, but buyers would have choice steers, but buyers would have been better pleased if receipts of western range cattle had been on a larger scale. The most striking feature was the stiff advance of strictly prime heavy beeves, with two transactions at \$7.80, or 256 higher than any trade of the previous week. Thus the long predicted advance, in choice corn-fed beeves has taken place, and a rise to \$3 is being talked of now. The poorer grassy native steers sold at \$4.02@5.10, and the course of prices for all except really good fat cattle was in a downward direction. In fact, after Monday even very good cattle sold at 10@15c lower figures. Cows and heifers went at \$3.30@6, a few selling at \$6.25@6.50 and firmness confined to good lots. Canners and cutters sold at \$2@6, 3.25, and bulls declined sharply, going slowly at \$2.50@5. Calves were active and still higher, selling at \$3.50@9. The demand for stockers and feeders was better, and prices advanced largely 10@20c under limited offerings of good cattle, sales ranging at \$2.75@5.25. Stockers of superior quality that averaged 742 lbs. brot \$4.60. Wyoming range cattle sold up to \$6.25, being fully 35c higher than such steers brot a week earlier. Range steers sold all the way down to \$4.50, while range cows and heifers were taken freely at \$3.40@5.50. Prospects are better for range cattle than for native grassfed stock, and feeders are bound to sell higher.

Cattle were in good supply and demand today (Monday) the receipts embracing

Wheat.—No. 2 red, \$1.03@1.05; Sept., 97%c; December, 94%c; May, 98%c.
Corn.—No. 2, 69@71c; Sept., 66%c; December, 56%c.
Oats.—No. 3 white, 36@37%c; Sept., 36%c; December, 36%c.
Butter.—Stronger and higher. Creameries, 24@28c; dairies, 21½@25½c.
Eggs.—Higher with fresh firsts, count cases included, 22c per doz.

While range cows and heifers were taken freely at \$3.40@5.50. Prospects are better for range cattle than for native grassfed stock, and feeders are bound to self higher.
Cattle were in good supply and demand today, (Monday), the receipts embracing about 4.000 range cattle from the north-west. Good cattle were active at steady prices, but others were slow and largely 10c lower.
Hogs were marketed so sparingly most

west. Good cattle were active at steady prices, but others were slow and largely 10c lower.

Hogs were marketed so sparingly most of last week that prices were usually kept advancing, despite the efforts of packers to hold them down. Eastern shippers were much smaller buyers than usual, taking less than 6,000 hogs Monday and far less other days, while local buyers satisfied their wants by purchasing the cheaper grade of heavy packing swine. Hogs went at the highest prices seen in this time for years, and it was interesting to recall the fact that thirteen years ago sales were made at \$2.55@3.37½. The range of prices has been contracting, and the average price has risen to the highest point in three weeks, with rather light weights selling the highest. The recent receipts have averaged in weight 231 lbs., compared with 226 lbs. a year ago and 250 lbs. two years ago. Pork has had sensational advances, and packers were good buyers. Hogs should be marketed whenever ready to come, but pigs should be fattened, for the big corn crop means lower prices for feed. A large part of the hogs go for the fresh meat trade, which is very large. Today's market was 5c higher, and the best went 7½c higher. Sales were at \$7.25@8.20.

Range lambs came forward for the first half of last week with a rush, about 63,000 sheep and lambs showing up Monday and Tuesday, and there was such a big break in prices that by Thursday receipts came largely from the ranges, with Idaho furnishing the principal share, and the percentage of sheep and yearlings was so small that they failed to sell off much. In fact, on Wednesday only two lots of yearlings were offered. More range lambs have arrived this year than in the same period last year, and plenty remain to come, but much lower prices would

cause many flocks to be held back. Some of the feeder lambs from the range were much poorer in quality than previous offerings and sold slowly at much lower prices. Lambs declined during the week 50@75c. Today's market was active at steady prices, lambs being salable at \$4@7.65, with feeders at \$6@6.75. Wethers were salable at \$4.50@5, ewes at \$2@4.50, rams at \$2@4, and yearlings at \$4.75@5.50. Breeding ewes went at \$4.55@6, feeding wethers at \$4.56@6.55 and feeding yearlings at \$4.75@5.35.

Horses are as active as could be expected during the latter part of August, with a better demand than that of a year ago, but trade is hampered by moderate efferings of desirable kinds. Before long the fall trade will open, and better prices are looked for. There is an active inquiry for choice feeders at \$165@225 per head, several Illinois dealers competing with eastern buyers. More activity is seen in small southern chunks at unevenly higher prices, sales ranging at \$60@110 and upward.

Michigan State Fair Detroit, Mich. **SEPT. 2-10**

Great to miss this great show, where the best products of farm and factory will be shown in profusion.

The best live stock and the choicest products of the soil will be on exhibition and will afford unequaled opportunities for study and comparison, while the exhibits of farm machinery will be larger than ever, and most of it can be seen in operation.

ever, and most of it can be seen in operation.

The free entertainment features offered will also Entertainment be of a high class, including the best of racing programs, a grand exhibition race between the world's two fastest harness horses, air ship races every day, the choicest music, and a grand evening entertainment which will close with magnificent fireworks.

It will prove a relief from the hard work of Needed the summer. Bring your family with you; they need the change. Bring the boys and girls, it will give them an inspiration and help to keep them on the farm. COME NOW! Throw off farm cares for a day or two and enjoy yourselves. Railroad rates will be low and you can see Detroit as well. COME ON.



Get the Wholesale Price on this

Ball - Bearing Pitless

Drop us a postal to learn how and why we save you from \$\partial{\text{Pot}}\$ to \$\partial{\text{Bot}}\$ on a scale that has all the good features of other kinds and a lot of exclusive points.

The ball-bearing principle alone doubles the value of this scale—gives a freedom of movement that prevents binding and clegging.

This is the only scale soldat wholesale price to farmers on 60 days free trial—on a full 10 years' guarantee. Requires no pit-digging, no wood except floor. So the first price to taking the other fellow's weights. Storekeepers sell goods on their weights, and that's what you ought to do. Before grain or stock leaves your place you ought to know the net weight exactly. Weight is just as important as price. You wouldn't sell hogs at \$\frac{1}{2}\$ cunder market and you should not sell them under weight.

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STUMPS—Farmers having stumps and stones to b'ast should write for prices on dynamite, caps and fuse.

Meredith Powder Co., Richmond, Ind.

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 edition 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. Subscribers may change from one edition to another by drepping us a card te that effect.

DETROIT LIVE STOCK MARKETS.

Thursday's Market. August 26, 1909.

Cattle.
Receipts, 693. Market 5@10c higher on

Cattle.

Receipts, 693. Market 5@10c higher on all grades.

We quote: Dry-fed steers, \$5.50@5.65; steers and heifers, 1,000 to 1,200, \$4.25@ do av 90 av 65. steers and heifers, 800 to 1,000, \$3.75 @4.25; grass steers and heifers that are fat, 800 to 1,000, \$3.75@4.25; grass steers and heifers that are fat, 800 to 1,000, \$3.75@4.25; grass steers and heifers that are fat, 800 to 1,000, \$3.75@4.25; grass steers and heifers that are fat, 800 to 1,000, \$3.75@4.25; grass steers and heifers that are fat, 800 to 1,000, \$3.75@4.25; grass steers and heifers that are fat, 800 to 700, \$3.25 to 8.25@35; common cows, \$2.50 do 3.25; canners, 1.50@2; choice heavy bulls, \$3.50@3.75; fair to good bolognas, bulls, \$3.50@3.75; fair toeding steers, 800 to 1,000, \$3.50@4; choice feeding steers, 800 to 1,000, \$3.50@4; choice stocksers, 500 to 700, \$3.60@3.75; fair stockers, 500 to 700, \$3.60@3.75; fair stockers, 500 to 700, \$3.50@3.75; fair stockers, 500 to 700,

at \$3.75; to Newton B. Co. 13 steers av 1,186 at \$5.65?

Bishop, B. & H. sold to Mich. B. Co. lambs av 60 at \$4.75, 11 do av 120 at \$4.55.65?

Bishop, B. & H. sold to Mich. B. Co. lambs av 60 at \$6.25; to Stoker 26 do law 100 at \$2.50, 3 av 60 at \$3.40, 7 do av 604 at \$3.40, 7 do av 605 at \$3.40, 7 do av 604 at \$3.40, 7 do av 605 at \$3.50; to Bresnahan 2 do av 675 at \$3.50; to Smith 3 bulls av 1,016 at \$3.75, 1 do weighing 820 at \$3.25; to Bresnahan 5 heifers av 550 at \$3.50; to Newton B. Co. 2 cows av 710 at \$2, 11 steers av 960 at \$3.75; to Newton B. Co. 2 cows av 710 at \$2, 11 steers av 960 at \$3.75; to Regan 14 butchers av 580 at \$3.40; to Austin 4 stockers av 560 at \$3.60, 3 do av 666 at \$3.75; to Thompson 9 do av 944 at \$3.75; to Thompson 9 do av 944 at \$3.75; to Thompson 9 do av 944 at \$3.70; by Thompson 9 do av 944 at \$3.70; to Thompson 9 do av 944 at \$3.70; do weighing 960 at \$3.50; to Regan 5 heifers av 464 at \$3.50; to McDonald 3 stockers av 663 at

do av 795 at \$4.25; to Goose 2 buttehers av 610 at \$2.50; to Thompson 9 do av 944 at \$3.70.

Spicer, M. & R. sold Goose 2 bulls av 426 at \$3; to J. W. Smith 10 feeders av 882 at \$3.90, 2 bulls av 665 at \$3.15, 1 do weighing 960 at \$3.50; to Regan 5 heifers av 464 at \$3.25; to Dombitke 2 butchers av 585 at \$3.40, 13 do av 583 at \$3.25; to Caplis 1 cow weighing 780 at \$2.50; 1 heifer weighing 700 at \$3.75, 10 butchers av 663 at \$3.50; to McDonald 3 stockers av 616 at \$3.50; to McDonald 3 stockers av 616 at \$3.50; to Mich. B. Co. 3 steers av 690 at \$3.50; to Mich. B. Co. 3 steers av 690 at \$4, 7 cows av 940 at \$3.50; to Rattkowsky 2 do av 950 at \$3; to Thorborn 13 stockers av 602 at \$3.60. Sharp sold Thompson 3 butchers av 853 at \$4.

Same sold Gerish 3 steers av 1,100 at \$5.10.

Veal Calves.

Receipts, 387. Good calves \$1@1.50 higher than last week. Best, \$9@10; others, \$5@8.50; milch cows and springers steady.

Bishop, B. & H. sold Parker, W. & Co. 15 av 160 at \$8.50; to Goose 2 av 175 at \$4; to Austin 7 av 155 at \$8.50; to Fitzpatrick Bros. 2 av 260 at \$6, 9 av 140 at \$9; to Parker, W. & Co. 2 av 185 at \$10, 1 weighing 220 at \$9.50; to Friedman 2 av 125 at \$9; to Newton B. Co. 9 av 145 at \$8.75; to Fitzpatrick Bros. 2 however, w. & Co. 14 av 155 at \$8.75; to Fitzpatrick Bros. 2 av 260 at \$6, 9 av 140 at \$9; to Parker, W. & Co. 14 av 155 at \$9.50; to Fitzpatrick Bros. 9 av 160 at \$9; to Parker, W. & Co. 14 av 155 at \$8.75; to Fitzpatrick Bros. 9 av 160 at \$8, 7; to Fitzpatrick Bros. 9 av 160 at \$8, 7; to Fitzpatrick Bros. 9 av 160 at \$9; to Parker, W. & Co. 14 av 155 at \$8, 50; 22 av 180 at \$8.50.

Spicer, M. & R. sold Mich, B. Co. 3 av 155 at \$8, 2 av 205 at \$4, 1 weighing 20 at \$5.25; to McGuire \$8 av 150 at \$9. 1 weighing 220 at \$5.25; to McGuire \$8 av 150 at \$9. 1 weighing 220 at \$5.25; to McGuire \$8 av 150 at \$9. 1 weighing 220 at \$5.25; to McGuire \$8 av 150 at \$9. 1 weighing 220 at \$5.25; to McGuire \$8 av 150 at \$9. 1 weighing 220 at \$5.25; to McGuire \$8 av 150 at \$9. 1 weighing 220 at \$5.25; to McGuire \$8 av 150 at \$9. 1 weighing 220 at \$5.25; to McGuire \$8 av 150 at \$9. 1 weighing 220 at \$5.25; to McGuire \$8 av 150 at \$9. 1 weighing 220 at \$5.25; to McGuire \$8 av 150 at \$9. 1 weighing 220 at \$5.25; to McGuire \$8 av 150 at \$9. 1 weighing 220 at \$5.25; to McGuire \$8 av 150 at \$9. 1 weighing 220 at \$5.25; to McGuire \$8 av 150 at \$9. 1 weighing 220 at \$5.25; to McGuire \$8 av 150 at \$9. 1 weighing 220 at \$5.25; to McGuire \$8 av 150 at \$9. 1 weighing 220 at \$5.25; to McGuire \$8 av 150 at \$9. 1 weighing 220 at \$5.25; to McGuire \$9. 4 weighing

THE MICHIGAN FARMER.

Groff sold Newton B. Co. 9 av 150 at \$9.
Roe Com. Co. sold Hammond, S. &
Co. 10 av 146 at \$8.50, 1 weighing 110 at
\$6, 2 av 120 at \$6, 4 av 150 at \$7.50; to
Mich. B. Co. 7 av 155 at \$8.50; to Hammond, S. & Co. 11 av 170 at \$9.
Haley sold Newton B. Co. 11 av 170
at \$4.50.
Cheney & H. sold same 15 av 150 at

Cheney & H. sold same 15 av 150 at

Cheney & H. sold same 15 av 150 at \$8.25.

Wagner & A. sold Kamman B. Co. 11 av 150 at \$8.

Sheep and Lambs.

Receipts, 2,397. Market active and 25c higher than last week.

Best lambs, \$6.75@7; fair to good lambs, \$6.50; light to common lambs, \$5@5.50; yearlings, \$5; fair to good sheep, \$4@4.25; culls and common, \$2.50@3.25.

Bishop, B. & H. sold Mich. B. Co. 21 sheep av 80 at \$3, 47 do av 90 at \$4; to Parker, W. & Co. 78 lambs av 65 at \$6.25; to Young 26 do av 65 at \$6.25; to Hammond, S. & Co. 7 do av \$6 at \$7, 25 sheep av 90 at \$4; to Sullivan P. Co. 41 lambs av 65 at \$6.50, 25 do av 60 at \$6.50, 38 do av 70 at \$4.50; to Mich. B. Co. 17 sheep av 110 at \$4.50; to Newton B. Co. 4 do av 80 at \$4, 38 lambs av 80 at \$6.75; to Fitzpatrick Bros. 24 do av 75 at \$6.50; to Hertler 60 do av 50 at \$6.

Spicer, M. & R. sold Mich. B. Co. 15 sheep av 90 at \$4, 71 lambs av 75 at \$7; to Newton B. Co. 15 sheep av 92 at \$4, 71 lambs av 75 at \$7; to Newton B. Co. 15 sheep av 92 at \$4, 71 lambs av 75 at \$6.50; to Hertler 60 do av 50 at \$5.

Spicer, M. & R. sold Mich. B. Co. 15 sheep av 92 at \$4, 71 lambs av 75 at \$7; to Newton B. Co. 15 do av 50 at \$5.

Spicer, M. & R. sold Mich. B. Co. 15 sheep av 95 at \$6.50; to Hammond, S. & Co. 8 sheep av 125 at \$4.25; to Mich. B. Co. 21 lambs av 65 at \$6.50.

Wagner & A. sold Sullivan P. Co. 65 lambs av 75 at \$6.50.

Clark & McK. sold same 20 do av 65 at \$6.50.

Haley sold Newton B. Co. 5 lambs av 75 at \$6.50.

Haley sold Newton B. Co. 5 lambs av 75 at \$6.50.

at \$6.50.

Haley sold Newton B. Co. 5 lambs av 60 at \$5, 1 sheep weighing 190 at \$3, 35 lambs av 75 at \$6.50.

Same sold Fitzpatrick Bros. 32 lambs av 60 at \$5.50, 1 buck weighing 180 at \$2.50, 35 sheep av 80 at \$4.10.

Lewis sold same 4 do av 100 at \$4.25, 5 do av 115 at \$3.50, 10 lambs av 68 at \$6.25.

Chase sold same 13 av 70 at \$6.50.
Haley sold Thompson 43 sheep av 75
at \$4.
Clark & McK. sold same 9 do av 105

at \$4.

Roe Com. Co. sold Hammond, S. & Co. 14 sheep av 90 at \$4.75, 11 do av 120 at \$4.25, 2 do av 100 at \$2.50; to Caplis 23 lambs av 60 at \$6.25; to Stoker 26 do av 60 at \$5.50.

Johnson sold Mich. B. Co. 10 sheep av 133 at \$3.50, 21 do av 70 at \$4.90, 119 lambs av 75 at \$6.30.

Hogs.

Receipts, 2,437. Market steady at last week's prices.

Friday's Market.

August 20, 1909.

Cattle.

Sharp sold Thompson 3 butchers av 853
t \$4.

Long sold Kamman 4 butchers av 855
t \$4.20.

Haley sold Schlischer 2 bulls av 700 at 3, 2 cows av 850 at \$3.10, 15 btuchers to 576 at \$3.55.

Lewis sold Gerish 19 butchers av 855
t \$4.40.

Waterman sold Marx 11 butchers av Waterman sold Marx 11 butchers av 856
Sharp sold Thompson 3 butchers av 856
t \$4.40.

Cattle.

There was a fair run of cattle on sale for Friday at the Michigan Central yards when the market opened and all grades sold full steady with Thursday, a few good heavy steers bringing \$5.50. Milch cows and springers were also steady.

Haley sold same 2 bulls av 1,030 at \$3.50, 2 cows av 900 at \$2, 2 do av 775 at \$2.

Spicer M. & R sold same 1 do weigh

at \$4.40.

Waterman sold Marx 11 butchers av 910 at \$4.15.

Robb sold Mich. B. Co. 2 cows av 900 at \$5.10.

Spicer, M. & R. sold same 1 do weighing 1,150 at \$5.50.

Spicer, M. & R. sold same 1 do weighing 1,150 at \$5.50.

Spicer, M. & R. sold same 1 do weighing 1,150 at \$5.50.

Rob Com. Co. sold Kamman, B. Co. 3 butchers av 901 at \$3.75, 2 do av 740 at \$3.25, 5 do av 510 at \$3.80.

Same sold Gerish 9 steers av 832 at \$3.40.

Haley sold same 4 steers av 790 at \$3.90.

Haley sold same 4 steers av 790 at \$3.90.

Haley sold same 2 bulls av 1,005 at \$3.50.

Waterman sold same 2 cows av 990

Waterman sold same 2 cows av 990

at \$3.75.

Long sold same 2 bulls av 1,005 at \$3.50.

Waterman sold same 2 cows av 990

at \$3.30.

Same sold Gerish 3 steers av 1,100 at \$3.50.

Waterman sold same 5 butchers av 792 at \$4, 1 cow weighing 880 at \$3.1 steer weighing 800 at \$4, 1 do weighing 800 at \$4.15.

Rob Com. Co. sold Stabler 3 stockers av 765 at \$3.25.

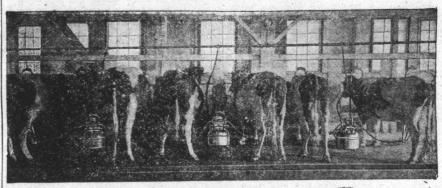
Bishop, B. & H. sold same 5 feeders av 900 at \$3.25.

Bishop, B. & H. sold same 5 feeders av 906 at \$3.90.

Sheep and Lambs.

THE B-L-K COW MILKERS

MICHIGAN STATE FAIR



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HOME AND YOUTH

JIMMY'S GET-AWAY.

BY HOWARD DWIGHT SMILEY.

"Say, Cully, wotcher in fer, anyhow?" The speaker, Red Kelly, a rough, middle-aged hobo, stood with his face pressed against the bars of his cell, gazing across

the corridor. Jimmy Graham, in the cell opposite. raised his head slowly and looked thru the bars at his questioner.

"Speaking to me?" he asked indifferently.

"Yep; I was askin' yer wotcher in fer," answered Red, rough but kindly,

Jimmy rose wearily from his cot and paced several times up and down the narrow confines of his cell before reply-

"As near as I can make out," he said finally, "I'm in because the stiff-necked Johnny Wise that the people of this county use for a judge, wouldn't give me a chance to explain myself. I was pinched for stealing a ride on a freight ridor, where they turned into another

"Hittin' the road, hey?" grinned the ther delightedly. "Dat's wot dey got other delightedly. "Dat's wot dey got me in fer, too. De judge gimme ninety days, yesterday."

"I got six months," said Jimmy bitterly.

"Gee!" gasped Red, an expression of horrified surprise overspreading his face; 'gee, dat's fierce, ain't it! Wot'd yer do. bust a seal?"

"No, I suppose the judge handed me the extra three months because I tried to tell him that I had a wife and baby to support, and was on my way to a job that had been promised me, in Jackson. He said that every hobo who had been before him since he became a judge had tried to spring that gag on him. Told me I_was a liar and a common bum and then handed me the six months, saying he hoped it would be a lesson to me, and his companion's hand. "I hope yer make left the rest of the room in gloom. that perhaps I'd be willing to settle down and be decent when I got out. I've been in only ten days."

At this juncture the turnkey entered the corridor and handed a letter thru the bars to the young man. He then turned The hall was empty, but he could hear and began unlocking the cells for the purpose of letting the prisoners into the corridor for their daily exercise.

Jimmy seized the letter eagerly and quickly opened and read it. The contents were evidently of a startling nature, for he turned very pale and collapsed on his cot with a groan.

He was aroused a moment later by the voice of Red, who stood in the door of his cell, which the turnkey had unlocked and opened.

"Wot's de matter, pal?" he asked. "Git some bad news?"

Jimmy rose from his cot, thrust the letter into his trousers pocket and stepped out into the corridor. His face was still white and drawn, and he seemed to be almost at the point of bursting into tears. "This is awful," he said, as they

walked slowly down the corridor. "It's the limit. I've got to do something." 'Wot's de rip, anyway?" asked Red.

Jimmy slowly drew the letter from his pocket and handed it to his companion, who read it slowly and laboriously. It contained the following:

James Graham, Care Collins County Collins, Michigan. County Jail.

'stead 'o hittin' de road."

dead, and no show of anything starting felt the need of rest. up. I have a friend who's foreman of a shop in Jackson, and I wrote him for a came to a small island, covered with that I soaked him good." job and he wrote back that there was a trees and underbrush, and crawling onto take it within ten days. I gave the wife night should fall. all the money I had, which was barely It seemed an age to him that he was tunes of Jimmy. enough to keep her and the kid until I compelled to remain on the little island could send her more, and as I was broke, but night finally came, and after waiting swered the judge. "I sent him out this I had to beat it. I got along all right until it was quite dark, Jimmy crept out afternoon to open up the building and founded constable discovered me in the river. empty and pinched me."

commented Red. "Worse'n Godfrey."

'I can't stand it to think of Minnie being of a picnic ground. in the hospital and the kid in the foundlive on, and will probably be too weak hesitation Jimmy advanced toward it. to work."

The building was a low round affa

"Don't she know where yer is?"

could, and have had one letter from her. which stood open. He paused here for She's a game little girl, and said she'd a minute, peering into the dark interior try and get a job somewheres. there's mighty few jobs in Chicago, just now, and now that she is sick she he mused. "Still, it must be something the pit. couldn't work if she did have one. It's of that sort. Guess I'll take a look in-awful." side and see what I find. I might run

pathetically. pal. Mebbe something will turn up. Yer can't never tell."

corridor, near which they were standing, opened and the turnkey entered with a prisoner. The latter was badly intoxithe door unlocked and slightly ajar, and building. bundled his charge to the end of the corand disappeared.

Both Jimmy and Red noticed the turnglance at his companion and then down the corridor. The other prisoners were talking, and none had noticed the turnkey's mistake.

Red nodded soberly. "You might make yer get-away," he whispered, "but it'll be risky. If dey ketch yer it'll mean a year."

Jimmy that fast. It would probably be his only chance and he felt that he must do something for his family at once. he quickly made up his mind.

"I'm going to make a try for it," he whispered.

it, an' good luck ter yer," he whispered as Jimmy turned to the door.

He stepped quickly thru and pulled it shut after him. He found himself in a long hall leading to the sheriff's office. voices in the office, and realized that he

Jimmy turned the key softly and pulled slipped out, gently closing the door behind him.

He dodged around the corner of the jail, ran between two long rows of cord to own a bird any more." wood, past a barn, and into an alley note that the street was deserted and belonging to the judge who had senthen dodged across the road and into a tenced him. back yard.

keeping to back yards and tumbling over quiet little game of poker in a back room fences until, finally reaching the outskirts any more. They say he has it in for of the town, he crossed a railroad track you, too." and ran diagonally thru a large field towards some woods. Reaching these he sued.

Collins, Michigan.

Dear Sir:

I have been asked to inform you that your wife is very seriously ill, and practically destitute. Unless you are heard from at once she will be placed in the charity ward of the City Hospital and your child sent to the Foundlings' Home. Yours truly, SILAS CHURCH, M. D.

SILAS CHURCH, M. D.

Tuly six miles between.

Substitute to the substitute of this building, and of course I can trust you not to let Buck get wind of it."

"You're the your distinction of this building, and of course I can trust you not to let Buck get wind of it."

"You're the your as interested in the game as you are, and are just as anxious to see the sport.

Exclamations of Guess we don't need to worry about the other men.

"Are you sure, J."

"Sure!" snapped "Sure!" snapped" kid fer? A man wot's got a fam'ly perhaps suspicion in this condition, he escape from jail today." oughter stay home an' take care o' 'em, decided that it would be best to remain "Yes," answered the judge. "It was him up? This puts us in a pretty mess!" stead 'o hittin' de road." out of sight until the darkness could that young bum I sent up for six months, "Looks to me like a good joke on "I had to go. I'd been out of work for cover his lack of apparel. Beside this, the other day. I sized him up for a bad Buck," laughed one of the men. "He four months and everything in Chicago his long run had exhausted him and he egg right on the start, and when he tried lets a prisoner escape, and his arch

steady one waiting me there if I could this he threw himself down to wait until John?" asked the other, who was ap- of this fellow again, what's going to

He had proceeded for about a mile "Dis town's fierce fer pinchin' boes," when he came to a grove of large trees soon." beside the river. The ground here was

The building was a low round affair, without windows, and Jimmy followed "Oh, sure. I wrote her as soon as 1 the wall around until he came to a door, But wonderingly.

"Hardly large enough for a dance hal!," side and see what I find. I might run "Tis fierce, ain't it," said Red sym- on to an old coat or hat that some one hetically. "But keep yer head up, has left behind."

He stepped inside and groped half way an't never tell." around the walls without encountering Just then the door at the end of the anything. Then he stumbled onto what seemed to be several empty packing boxes. He was about to pass these, when he was startled to hear the sound cated, and the turnkey had to support of voices and footsteps approaching, and assist him along. He carelessly left They were apparently coming toward the

The first impulse was to dash out of the door and run, but the voices were already so near that he realized he could not do this without being seen and probkey's carelessness. Jimmy shot a quick ably captured. Turning to the packing boxes he groped among them until he found one lying on its side, and into walking about or standing in groups, this he crawled just as a number of men entered the building, conversing and joking in a manner which at once assured him that they were not a pursuing party.

A moment later a faint gleam penetrating the side of the room where Jimmy was concealed, told him that a light had He discovered a small been struck. knot hole in the side of his box, and placing his eye to this, he saw that the In his present desperate state of mind light came from a large oil lamp hung he was ready to try almost anything, and low in the center of the building, directly over what appeared to be a small pit surrounded by a railing. The lamp was fitted with a huge green shade, which The other nodded silently and pressed concentrated the rays upon the pit, and he would inevitably be discovered.

> The men were scattered about, in groups, conversing and joking. Two of them approached Jimmy's place of concealment and, seating themselves on the box in which he was hidden, commenced talking.

"Well, Judge," one of them was saymust be quick. Looking hastily about ing, "you've a pretty snug little layout he discovered an iron door, close to his here. Makes quite an addition to your right, with the key in the lock. hunting and fishing lodge, don't it?"

"Yes," replied the other; "this ought the door open slightly. It led him into to be private enough to allow us to inthe back yard of the jail, and Jimmy dulge in a little sport occasionally without Buck finding it out. The sheriff's so blamed conscientious in the performance of his duties that it isn't safe even

At the sound of the last voice, Jimmy which he followed until he came to a started. It was a peculiar deep guttural street. He paused here for a second to tone, and he recognized it instantly as

"Buck does keep the lid clamped down He continued this for some distance, pretty tight. He won't even stand for a

"Yes. I exerted all my influence toward preventing his election, and he found himself on the bank of a large knows it. He'd jump at a chance to get river, and turning down stream contin- even with me, and therefore we've got ued his flight, casting frequent glances to be mighty careful about this place. I over his shoulder to see if he were pur- had it built ostensibly for a billiard room, and have a table which can be moved He continued thus until he had put over the pit to conceal it. Outside of my

SILAS CHURCH, M. D. felt that the swamp would be an excel- are just as analous to see the specific spe Wot'd yer run off an' leave yere wife an' would be bound to attract attention, and isn't so wise. I hear he let a prisoner

to hand me that old gag about a wife enemy, Judge Butler, captures the pris-After wading in for some distance, he and baby to support, it made me so tired oner. Ha, Ha!"

parently not interested in the misfor- happen to our little cock-fighting ren-

"That is what I'm wondering," an- to keep his mouth shut, do you?" since we arrived; but he is probably we do?" around somewhere, and will show up

"That accounts for the door being ing in here, anyway?" he demanded,

"Well, it seems that I've got to do cleared of underbrush and leaves, and open," mused Jimmy. "It's lucky I didn't something," continued Jimmy desperately. Jimmy concluded that it was some sort run right into John's arms."

At this moment the missing John ap-A short distance farther he came sud- peared, somewhat flustered, and with lings home. What'll Min do when she denly upon a building. It was dark and abject apologies for his prolonged abcomes out? She won't have a cent to evidently deserted. After a moment's sence. He made some explanation to the judge which Jimmy could not hear, was sharply reprimanded by his master, and ordered to fetch the birds.

John hurried out to execute this order. and shortly reappeared bearing a number of wicker covered baskets which he placed on the floor. The door was then closed and the men gathered expectantly around

Jimmy, who had been taking all this in thru his knot hole, saw two of the men turn to the baskets and select two of the fowls, which Jimmy recognized as game The men jumped into the pit cocks. with the cocks, and the others pressed closer around the railing.

This was the nearest that Jimmy had ever come to witnessing a cock fight, and while he could not see the actual battle. the actions of the men, their excited wagering among themselves, and their exclamations of joy or dismay as their respective birds gained or lost ground. interested him in spite of his precarious position.

The fight was soon over, and Jimmy wondered as he heard the victorious rooster crow. He did not know that this was necessary in order to decide the battle.

Two more birds were quickly taken from the baskets and made ready to fight, and during this interval two of the onlookers stepped over to Jimmy's side of the building and picked up one of the packing boxes, carrying it to the side of the pit and sitting down on it. Noting this, two other men carried over the second box.

This was naturally very disconcerting to Jimmy. There were still over half the men standing, and at any moment they might come for boxes, and, as there was but one other besides his remaining,

He hadn't given much that to his position, so far, feeling that he was quite safe in his place of concealment; but now it occurred to him that, even if he were not discovered, when the men left, the building would very probably be locked, and as there were no windows, except those in the roof, he would be virtually a prisoner again.

He peeped out at the men. They were all excitedly watching the second fight, and were crowded closely around the pit. It'd be a pretty good plan for me to get out of here right now, he told himself.

Crawling noiselessly from the box he To his dismay he tiptoed to the door. found this barred with a heavy piece of oak set in iron cleats on either side of the casing.

When he tried to raise this bar it stuck in the cleats so that he had to exert considerable upward force to move it, and when he finally did succeed, it came up so suddenly that he lost his hold and it fell with a loud thud to the floor.

Several of the men turned at the sound. Seeing Jimmy frantically trying to pull the door open, they sprang forward and seized him just as he succeeded in his efforts and was about to plunge into the darkness outside. He was jerked back into the light, where they viewed him with mingled surprise and consternation. "How did you get in here?" several

Before Jimmy could reply the judge strode forward, seized him by the shoulder and whirled him around so that the light fell full on his face.

demanded.

"You're the young fellow that escaped from the jail today," he said after a

Exclamations of surprise came from

"Sure!" snapped the judge savagely.
"Of course I am sure! Didn't I send

nat I soaked him good."

"It's not so funny as you think," re"By the way, where is your man torted the judge. "If Buck gets hold dezvous? You don't expect the prisoner

The laughing one subsided suddenly. "That's right," he agreed. "We can't until I reached this town, when that con- of the swamp and continued down the move out the table. I haven't seen him let Buck get him. What in thunder will

"That's what I want to know," answered the judge. "What were you do-

Ranges

to break out of jail for?"

A surprised expression came into the the voice of the sheriff was heard.

judge's face as he read. "Then you really have a wife and

child?" he said. "Certainly. I tried to tell you so before, but you wouldn't believe it."

The judge folded the letter up thotfully and handed it back. "Well, what are you going to do?" he inquired.

swered, shrugging his shoulders. "You've got me.

"Why don't you let him go?" suggested one of the men.

have a double charge against us: running Make up your mind quick!" a cock fight, and aiding a prisoner to es-The last is a mighty serious charge, I can assure you."

"Perhaps if we give him a chance to get away he will promise to keep his mouth shut about what he has seen here out quick before Buck smashes the door tonight," suggested one.

"How about that?" said the judge to Jimmy.

But a great light had dawned on Jimmy. He had been thinking fast while the others were trying to decide on what to do, and had arrived at a very definite conclusion: If the judge had him, he likewise had the judge.

"I guess I'll stay," he said quietly. "Stay!" gasped the judge in dismay. "What for?"

"Oh, there doesn't seem to be much use trying to get away. A man can't run around the country dressed as I am without exciting suspicion, and, as it must be pretty generally known by now that I have escaped, they'd spot me in a minute."

"If it's a coat you want, you can have mine," said one of the men, of about Jimmy's build, peeling off the garment and emptying the pockets,

"Yes, and you can have my hat," said another.

Jimmy accepted the gifts silently and donned them.

"Now get out of here, and don't stop until you are out of the state," said the

ndge, moving toward the door.
"T believe I said I was going to stay here, said Jimmy nonchalantly.
"But, what for? Don't you want to

get away and take care of your family?" "Doesn't seem to be much use trying. I'm out of a job and broke and couldn't help them if I did get home. I guess I might as well go back to jail and serve out my time. I'll have the satisfaction of seeing some of you fellows in there with me, or of knowing that you all paid big fat fines."

'Now, see here," said the judge in a coaxing tone, "you don't want to get us into trouble, do you? These fellows here are all prominent business men in Collins, and their arrest on the charge of participating in an cocking main would be a complete disgrace to them. And besides, it would put me out of business and ruin me, were it known that I was at the head of it. Now be a good fellow and get out of the state."

"If you get into trouble it'll be your own fault," answered Jimmy coolly. "If half a mile away.

you hadn't been so Johnny Wise that you sent me up for six months without giving me a chance to explain my circumstances, I'd be working now and in a position to help my wife, instead of being he ran toward it. a fugitive. I'll be mighty glad to see you get soaked to the limit.'

growled one of the men. himself up. He's just trying to work enough for him to catch it. us out of a bunch of coin."

sheriff all I know," declared Jimmy.

The men stared at each other in con- hold of the side of the door and swung ternation. The situation was obviously himself inside. sternation. beyond them.

present it to him," said one of them. side, carrying him away from his persepropose to let up until we dig."

"How much do you want to get out of

to Jimmy. Before he could reply there came a sound from outside that froze them all.

The judge turned white as a sheet and listened breathlessly until the sound was repeated, this time closer to the building. any country sheriff."

"Great Scott!" he gasped. "Buck has got the bloodhounds on the trail! Fasten

that door, quick!" Two men sprang back and placed the

turning to Jimmy. "What did you want bar in position. They were not a second too soon, for at that instant the dogs Jimmy took the letter from his pocket arrived outside and commenced to howl and silently handed it to his questioner, and scratch at the door. A second later

"Open up, Graham, and surrender," he called. "We know you are in there, and you can't get away."

The judge seized Jimmy's arm and pulled him to the opposite side of the building.

"See here," he whispered, caught and can't escape. But Buck "That's for you to say," Jimmy an-must not know that the rest of us are here. You'll have to go back to jail, but if you'll slip quietly out and give yourself up, and keep your mouth shut, I'll give you two hundred dollars toward taking "That's a bright idea," growled the care of your family, and will do what I dige. "Then if Buck caught him we'd can to give you your freedom at once.

"I'll agree to that," Jimmy whispered promptly.

The judge thrust a roll of bills into his hand. "There's two hundred or more there," he whispered. down, and be sure to close it after you,' and with that the judge sprang to the side of the pit and blew out the lamp.

The sheriff and his men had been keeping up a clamor outside and were now pounding heavily on the door. Jim-

my quickly stepped to it and called out: "All right, sheriff, I give in. Stand back; I'm coming out."

He removed the bar, and opening the door just wide enough to permit him to pass thru, he slipped out, closing it quickly behind him.

He was immediately surrounded by the sheriff, three deputies and two huge bloodhounds. The men carried lanterns.

"I that we would get you," said the sheriff exultantly. "We had to telegraph to Jackson for the hounds or we'd caught you before this."

"Where'd you get that coat and hat? demanded one of the deputies suddenly 'You didn't have them when you left the jail."

"Why, I-I-" began Jimmy confusedly. "Who is in that building?" asked the

sheriff suspiciously.
"Not a soul," lied Jimmy faithfully.

"I don't believe it. I that I heard someone whispering before you came out. Guess I'll take a look."

To Jimmy's dismay the sheriff stepped to the door, but he had barely crossed threshold when his lantern was kicked from his hand and some one struck him violently in the face, knocking him down.

Instantly all three of his companions and the dogs sprang to his aid; but the men inside were determined not to be recognized and aimed kicks at the lanterns in the hands of the deputies, quickly extinguishing them, and in a second the place was in darkness and a turmoil of shouting and fighting men and barking

Jimmy was for the moment left alone and seeing his opportunity he turned and ran as fast as he could across the fields.

From the direction of the town he could hear the heavy puffing of a locomotive and about a moment later the headlight swung into view around the curve about

He knew that the railroad must be somewhere close by, and he could tell by the labored puffing of the engine that the train was on an upgrade. Hopefully

He reached the tracks just as the engine passed him, and, as he had sur-"Oh, throw him out and take a chance," mised, the long heavy freight train was "He's only having all it could do to top the grade, bluffing and has no intention of giving and he saw that it was moving slowly

He let fully half the train pass him "If you put me out I'll hike right before a box car with the side door straight back to the jail and tell the open came along, and then by running as fast as he could he managed to catch

A few minutes later the train was over "Heavens, let's make up a purse and the grade and rolling down the other "He's got us dead to rights and don't cutors and toward his destitute family at a rate of thirty miles an hour.

"Mighty lucky I hit that grade," he the state?" demanded the judge, turning soliloquized as he closed the door and sat down in a corner of the car. "They'll never dream that I caught this train, and will hunt all over the county for me. It was the long drawn bay of hounds. I'll make Hammond by daylight, and I'll walk home from there. Once in good old Chi, I guess I'll be safe from capture by

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A HAND EMBROIDERED CORSET

BY MAE Y. MAHAFFY.

possibilities which it opens for inexpen- omelet it is better than a knife for lifting sive, yet attractive underwear. The mus- and turning the egg, and is excellent for lin, nainsook, cambric or linen founda- spreading icing or meringue. tion, as the case may be, is never a embroideries bring up the expense of when she acts in the capacity of house-such garments to no small sum. And it keeper and home-maker, with the multiplacing tastefully a few lace or embroidery stitches can aid greatly in keeping the contents of her purse well nigh intact, and at the same time be the possessor of garments far more valuable than those made with shop trimmings.

To make a corset cover use the cir-

cular form of cut, making the cover it is recognized as a varuable plant, both seamless, and finish it with a plain belt. for its medicinal qualities and its gen-The top and fronts are scalloped simply in buttonholing with a coarse luster cotton. These scallops are easily marked out around one edge of a spool. An ably receive an inferior quality. There of violet powder, or the inch below the scallops, half inch but is no plant more easily grown in the with other flower petals. tonholes are worked across the front and garden. Select a mammoth broad-leaved Last summer, while I back in groups of two, thru which the ribbon is afterward run. This ribbon is brot up and knotted in a bow on each shoulder, doing away with other shoulder

The fronts are embroidered in scattered daisies of French laid work, and form stalky plants, before setting in the for a small pillow. intermingling with them in haphazard fashion are small eyelets. The design soil, enriched well with the best fertilizer filled with pine needles, chopped hay or is so simple that any one can readily lay out a similar one in a few minutes.

The eyelets are outlined in the row of stamping, then punched with a stil- good results. leto and overcast. The centers of the daisies are eyelets made in the same manner. The petals are covered first with a few rows of lengthwise stitches to serve as padding, and are then worked solid straight across this padding. The eyelet centers should be placed first, as it will then be an easy matter to join the petals neatly. A tiny bow or two of the ribbon gives a pretty finish to the fronts. It may be laced thru buttonholes if desired.

KITCHEN CONVENIENCES.

BY E. E. R.

home should be provided with as many conveniences as possible, in order to assist the housewife and her helpers in little things to be had at the five and ten half cup sugar, a few grains salt and cent counters cost a nickel or a dime, one cup boiling water; boil until smooth utensils. Cooking spoons, forks, strain- beaten cream. ers, covers, sauce pans of various sizes, basins, eggbeaters, can-openers, and othed the accident had never been pur twenty-five minutes; cool, add remaining chased, needless to say the next visit cream, strain and freeze. to town brot one.

Tin covers for all sizes of sauce pans are a necessity. Burned fingers are cups dried brown bread crumbs, one cup from woolen material by painting the caused by a lack of the right one which sugar, one-fourth teaspoon salt. Soak spots with glycerine, then wash with exactly fits the cooking dish. There is the crumbs in one quart cream, let stand pure luke warm water applied on a clean a lettle, made in granite as well as fifteen minutes, rub thru sieve, add sugar, linen rag. Afterwards press on the heavier ware, which has a clasp holding salt and remaining cream and freeze. the cover tightly in position when draining. Any one who has ever spilled food or scalded their hands when trying to drain a mess of potatoes, knows how exasperating it is to have the cover slip, causing such an accident. A wire basket in which the potatoes are placed while boiling is still better. It can be lifted with its contents from the kettle.

The heavy iron pots and pans of olden times have largely given place to those of aluminum and agate. However, there orris root, after drying, then shake well still uses for the ironware, and one of them is, when pan-broiling a steak. For this an old fashioned cast-iron spider is better than any lighter ware, as the en glow, have a slightly resinous odor seed oil are most widely used, but glyheat will not warp or break it. For frying which is very agreeable to some people, fish an iron pan-cake griddle is better and would make a good filling for a pilthan anything else as it has more sur- low. face and holds the heat evenly.

cellencies. The best ones are expensive wild hay cut on meadow lands. but as a saver of steps they hold first rank, combining in small space what, in and mixed with leaves, which have per-short time. Relief from pain is almost the average kitchen, is spread over con- fumes of their own. Petals of daisies, immediate. siderable ground. To be able to stand in violets, roses, lavender, etc., may be one place and reach every article needed mixed with the dried leaves of lemon Greek and means "sweet." It was disin baking, relieves the necessity of re- vermena, sweet briar. rose geranium or covered by Scheele in 1779, who called it peatedly crossing the floor, when every rosemary and all together make a sweetstep means added expenditure of strength. smelling por-pouri.

The thin, wide-bladed knife known as

the utensils of the kitchen. This little article soon becomes indispensable when

No workman can do his best unless costly item, but the dainty laces and equipped with tools, neither can a woman is just here that the woman capable of tude of demands upon her time and strength.

MOTHER'S SAGE BED.

BY MRS. NETTIE NEDRIDEK.

eral use in the culinary department

Many of the home-mothers depend on the druggist for their supply and invari- and may be used alone with a sprinkling ably receive an inferior quality. variety. An ounce of seed will grow enough plants to make nine or ten dollars' worth of dried leaves.

spring in a hot-bed or a shallow box in with them heads of white clover and sunny window. Transplant so as to —hen manure. Keep soil well worked up old newspapers cut in long, thin strips. and free from weeds. A spadeful of fertilizer put on before a rain will give

All flower buds should be plucked. Gather on a bright day, clipping the large leaves with sharp shears. Dry in a oven over the kitchen range. The plant of the experience of others. It may be is a perennial; so, if carefully handled generally known that the jars, after beand covered with loose straw in winter, ing filled and the tops screwed as tightly the plants will give you a good crop as possible, should be stood on their the second year. Quite a little sum can heads until the next day to detect any be earned each year by raising it to sell. leakage. While cooling, the tops may be The ladies will be glad to buy the fresh tightened more if needed, but never disarticle of you at five cents per package. turbed after cold. A neighbor complained The second year your orders will come to you readily. The sage bed can occupy tents had spoiled. One morning, hap-an out-of-the-way corner, and be a source pening in her kitchen when she was of income to the wife, or to the children.

The kitchen being the workshop of the FROZEN DAINTIES FOR HOT DAYS.

Frozen Chocolate.

yet these are as indispensable in their and then add three cups scalded milk. way as the larger or more expensive Cool and freeze. Serve in glasses with

Coffee Ice Cream.

One quart cream, one and one-half cups ers too numerous to mention all come at milk, one-third cup coffee, one and onethe popular price. Few kitchens are any fourth cups sugar, one-fourth teaspoon too well provided with all these and salt, yolks of four eggs. Scald the milk often the lack of a single one causes with the coffee, add one cup sugar; mix inconvenience and annoyance. I knew yolks of eggs with one-fourth cup sugar, dents will happen to the table linen, in a badly cut finger to result from an at- and salt; combine mixtures, cook over tempt to open a tin can with a knife, hot water until thickened, add one cup The can opener which would have avoid- cream and let stand on back of range

Brown Bread Ice Cream.

Three pints cream, one and one-fourth

FILLINGS FOR SOFA PILLOWS.

BY LAVILLA W. MACOMBER.

Did you ever make a pot-pouri pillow? If not, now is the time to begin collecting flower petals, etc., to fill one.

Where roses are abundant, their petals alone may be used as a filling, but most roses have no particular odor after they are dried, and it is well to sprinkle over some good satchet powder, or powdered

The flowers and leaves of swamp gum weed also have this odor, that is ine as of salts used. Soak cotton in the A kitchen cabinet combines many ex- what gives the delightful sweet smell to liquid, place on burn, bandage so as to

Any kind of flower petals may be used

By the way, let me tell you how to small scale is from olive oil.

a spatula is not commonly found among make an inexpensive powder to mix with | the dried petals: Take a small handful each of dried lemon and orange peel, once possessed. It is so pliable that it broken stick cinnamon, a little powdered One of the most useful phases of the can be slipped under a cake or a pie orris root, coriander and caraway seeds; present day craze for handwork is the without breaking either one. In cooking pound these in a mortar until well broken orris root, coriander and caraway seeds; and mixed together, then sprinkle over the petals. Tiny rose jars filled with dried rose petals with a little of this powder sprinkled over them, make very

dainty Christmas gifts.

For an invalid or nervous person, pillow filled wth dried hops is especially good, as the odor is soothing to the nerves, and is said to be a cure for

sleeplessness

A light, dainty filling is found in the pods of the common milk weed, which is generally found along the road sides. True, many mothers nowadays raise The pods should be gathered while a this herb, as did our grandmothers, and little green, as the fluffy filling will soon scatter after they burst. This filling is quite as light and elastic as leathers.

Dried clover blossoms, estecially the small white kind, make excellent pillows of violet powder, or they may be mixed

Last summer, while I was compelled to remain indoors by illness, many of my friends sent me large bunches of roses. I set about drying the petals, after they Seeds should be planted early in the had lost their freshness, and by mixing leaves of rose geranium, I had enough

SEALING FRUIT JARS AND THE USES OF GLYCERINE.

BY EMILY L. RUSSEL.

In these busy canning times every inwarm, dark room, or in a high warming telligent housewife gladly avails herself of the number of her cans, whose con-"trying" her can tops-after standing all night, perfectly cold, and no signs of leaking, we told her the probable cause of her "bad luck." But, being of the "always-done-this-way" kind, we doubt if she changed. It is a good plan to justing rubbers and tops, then snake well or stand on heads. and any imperfections will be discovered before the fruit is put in.

It is said that if before sealing the jars five or six drops of glycerine is added the fruit will not mold. Druggists preserve their fruit syrups in this way.

Speaking of Glycerine.

Its uses in the household are numerthe way of stains. Those caused by tea or coffee can be treated by soaking the fabric in cold water; wring, spread out and pour a few drops of glycerine on each spot. Let stand several hours, then wash with cold water and soap.

Coffee and milk stains may be removed wrong side.

A cement made by adding a teaspoonful of glycerine to a gill of glue is a great convenience in the kitchen, especially good for fastening leather, paper or wood to metal.

It also has its various medicinal uses -some may not be well-known. When the baby has a stomach-ache, caused by wind, two or three drops of glycerine will relieve it; and half a teaspoonful every half hour has cured summer cholera, water brash, etc.

together and the filling is ready.

Petals of sun flowers, both the old-fashioned and hybrid varieties, also goldcerine and epsom salts are superior. Moisten the salts with water enough to dissolve, add an equal amount of glycerkeep out the air, keep moist, and the injured part will be well in a remarkably

> The word glycerine is derived from the "the sweet principle of oil."

The usual method of obtaining it on a

Three Reasons Each with Two Legs and Ten Fingers.

A Boston woman who is a fond mother writes an amusing article about her experience feeding her boys.

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THE SPICES WE USE.

BY IRMA B. MATTHEWS.

Pepper.

As most housewives are now using many spices in canning and pickling we that a series of articles on spices would be of especial interest. This is the first in the series of five articles which will appear each week until concluded.

Every one that cooks uses spices, altho some use many more than others, but 1 was surprised one day in a gathering of ladies when the topic came up to find how few knew anything about them What part of the plant was used, how prepared and where they grew.

Acting on this knowledge I have designed this series of articles to give the information regarding these that all should possess. I have chosen pepper as the first because it is one of the oldest spices known to mankind. We find mention of it before Christ's time and at one time it was so highly prized in the city of Rome as to be worth its weight in gold. As one may well imagine, only the wealthy used it at that time, but now it finds its place in every household.

Black pepper is the fruit of Piper nigrum, a rambling sort of a shrub which is a native of the East Indies but is now cultivated in nearly all tropical countries including many of the New World. fruit is borne in clusters, each individual pepper being about the size of a pea and when ripe, of a beautiful bright red in color. It is, however, gathered as soon as it begins to turn as it is stronger then than when it is fully ripened.

The pepper in the wild state grows in a moist leafy soil, and the natives often gather this, but when cultivated it is grown from cuttings, and is usually planted about six feet apart. It is supported by poles or by trees set for the purpose, for it really likes shade and the young plants begin to bear in three or four years, and continue until they are twelve

The berries, when picked, are dried in the sun and then rubbed by hand to separate them from the stalks.

Taken in small quantities, pepper is very beneficial as a stimulant, but it is a fact that it is hard to find a reason for that the people living in the warm countries use it in much greater quantities than the people of the north and seem to be benefited by it rather than otherwise, as one might suppose. It was the one thing that I found difficult to get used to in southern cooking, altho in our own country I believe the red pepper is used more than the black.

In California they raise a shade tree that is a species of pepper, altho nothing could be more beautiful than they, with their drooping leaves and clusters of scarlet berries, they are not as many suppose, the pepper of commerce, altho sufficiently pungent I assure you, even the leaves having the pepper flavor.

THE SPARE ROOM.

If you are obliged to use the room regularly which you would like to keep as a spare-room, try this plan. Avoid having the room cluttered up with useless toilet ornaments—family pictures or mot-toes, such as "God Bless Our Home," or "What is Home Without a Mother," etc. Keep the room neat at all times. Have a covered box-a shoebox makes a convenient size-in the closet, and in this-keep a pair of clean towels and wash cloth, a pair of clean sheets and pillow covers, a fresh bedspread, blankets, dresser and wash stand covers, have these always ready. Then when unexpected company comes, and you have to provide sleeping accommodations, there will not be a grand scurry and a chasing hither and thither getting the room ready. All you will have to do is to remove the covers that have been in use and replace with the clean ones, make up the bed and your "spare room is ready.—E. J. L.

A CURE FOR BILIOUSNESS.

Chronic biliousness, of which so many women complain, is nothing more than chronic toxemia or poisoning, resulting from the putrefaction of food in the alimentary canal, and is relieved by free use of water as a beverage. Eight or ten glasses a day would be none too

Copious use of water is an internal bath, and purifies the body. An excess is to be avoided. Frequent use, rather than a large quantity at one time, is recommended. You will find that the person with a good complexion is generally addicted to the water habit.

Water thins the blood, and increases its volume. It is an effective means of relieving an ordinary cold, aiding as it does the elimination of the toxic matter in the blood which, more than exposure to the dreaded "draught," causes the symptoms known as "a cold."

Water is useful in cases of rheumatism and constipation. Few of us drink enough

Elderberry Pie Recipe.-One cup of sour cream, one cup of sugar, one cup of elderberries, two tablespoons of flour, Bake with two crusts.

The man who invents a machine that will save the woman two minutes in the preparation of a meal will do infinitely more to conserve humane power than he who invented the reaper or the

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For the benefit and convenience of our subscribers we have arranged the following list of papers on which we can save them money Besides the money, they save the trouble and expense of sending each order separately.

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					-	1	00
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MANAGING THE WASHING.

BY MRS. G. HOWARD SMITH.

When I first started house-keeping, nothing bothered me quite so much as wash day. I dreaded Monday! I almost believe I made every one around me dread it, too. I want to tell you how I have managed to remove a great deal of the worry and strain of the dreaded washday-for it still is my hardest day in the week, but so much easier than it used to

Saturday I plan to have plenty of bread to last over Monday. Often while doing my baking I make a steamed graham pudding, which will keep several days and is easily steamed on Monday. Last wash day I prepared a rice pudding while getting breakfast, and put it in the oven to bake. It was very quickly done and required very little attention while baking.

I always plan an easily and quickly prepared breakfast and dinner, so 1 can have all my strength and patience for the hardest part of the day.

By Saturday night my soiled clothes are all together and sorted. Sunday night I put the finest into the boiler, the re-mainder of the white clothes I put into a tub and cover with cold water. Before I start breakfast Monday morning I fill the boiler and let it remain thus till I have breakfast ready to serve. Then I put enough of the following preparation into the boiler to make a good suds: One bar of soap shaved, three tablespoonfuls of borax, two taplespoonfuls of kerosene, about one quart of water. Let it boil until soap is all dissolved.

This is the finest washing preparation I know of. It removes the dirt and stains and whitens the clothes without injuring them in the least. After once trying it, I am sure you will not want to be without it. I keep a jar of it on hand.

Let the clothes in the boiler heat slowly to boiling point, then boil 25 minuteslonger boiling will not hurt them. Remove the clothes from boiler, add a little more soap preparation and then put the clothes that are soaked to boil while the rest are being washed. Drain out as much of the boiling suds as possible, and if adding cold water to clothes makes them too cold, have some clear water heated to warm it, but do not use the hot suds.

I find that I have scarcely any rubbing to do to the first boiler full-only to get the suds out. Wring as dry as you can and blue. Have a large tub for blueing and as full as possible.

As soon as the white clothes are done I put the colored ones in, and let them soak a few moments unless it is a piece I think might fade.

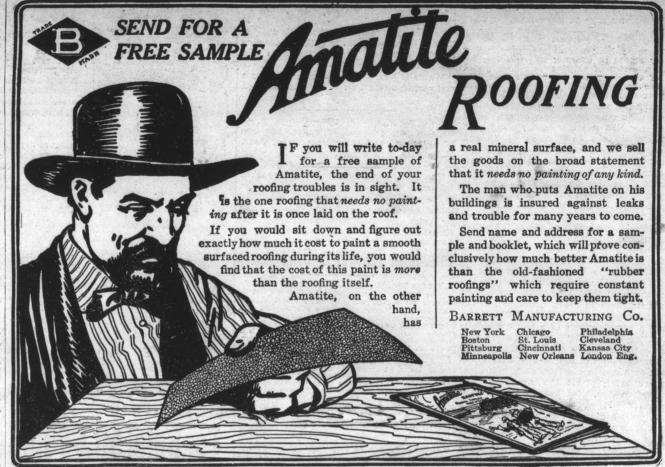
I find that by washing colored clothes in a cold suds (not a fresh clean one), and rinsing well in two waters, they keep their colors better.

In wringing and hanging up my clothes I save most of the ironing. Every woman knows how hard it is to iron wrinkles out of linen, especially when one uses a wringer. If napkins, towels, lunch cloths, etc., are folded before putting thru the wringer, over half the work of ironing is saved. It can be easily done, and they do not need to be unfolded in the blue water. I fold towels twice lengthwise, napkins the same, and leave them all folded until I hang them up, then each piece is unfolded. Wrinkles iron each piece is unfolded. easily from cotton pieces if one will take a little cars and shake them thoroly. My dish towels, dusters, and gauze under-wear, I never iron. I fold all my clothes as I take them from the line and those I do not iron I place in the hot closet to become perfectly dry.

There is no one on our street whose clothes are whiter than mine, and few, if any, have them on the line earlier. This sounds like boasting, but it is only of the method I have learned in doing my washing.

THE KITCHEN FLOOR.

If you have an old kitchen floor which you wish to paint-all farm kitchen floors should be painted, and the paint renewed frequently-and the floor is full of cracks, the following mixture is a good one for filling up the cracks, preparatory to paint-Tear old newspapers up into very small bits, pour over this boiling water and let it soak for 24 hours. By that time it should be thoroly soft. Pick it and mash it well and stir it into flour paste, into which a little glue has been stirred. Clean the dirt out of the cracks and fill with this mixture a day before you are ready to do the painting .- E. J. Lynch.



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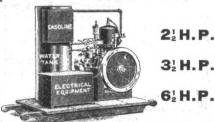
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