

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

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### HERE is perhaps no item in the ainting on The Farm. and equipment which is more often

DETROIT, MICH., SATURDAY, MAY 17, 1913.

or generally negelcted by the average farmer than is that of painting. At the same time there is probably no section of the country in which the farm buildings on the average farm are kept up as well as they are in Michigan, and particularly in the older agricultural counties of the state. Yet often this needed work of painting is too long delayed upon farm. buildings and there is no year, and scarcely a month in any year, when there is not some little job of painting that should be attended to upon the farm. either on the exterior or interior of the buildings or the farm tools or equipment. It would be profitable to give this matter more consideration upon the average farm, not only from the standpoint of improved appearance but as well because of the more lasting and satisfactory service which will be gotten from both buildings and equipment if kept properly painted; for, while a profitable degree of satisfaction will result from the use of paint for decorative purposes, the great object in the use of paint is as a preservative covering for the surface painted.

proper up-keep of the farm home

To secure the greatest degree of benefit in this direction, and also from a decorative standpoint, it is essential that good paint be used and that it be properly applied. Hence the first consideration in preparing for this work is the kind of paint secured. This should, in the writer's opinion, depend largely upon who is applying it. If an experienced painter is employed it will be the best policy to let him look over the job and then take his advice as to the kind of paint to be purchased and whether ready mixed or in the form of the necessary ingredients.

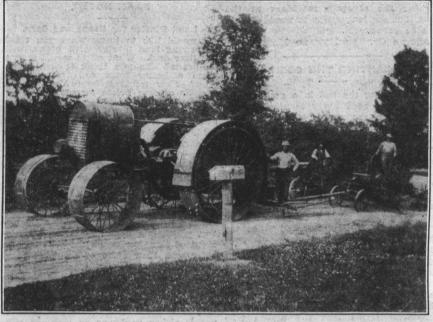
Where the work is to be done by home labor, however, the case is somewhat different and for several reasons. A man who is inexperienced in the work of painting will not know just the proper ingredients and proportions of each to use in mixing the paint for any particular job. Then considerable time is required to get the paint properly mixed and unless enough is mixed at one time to do the whole job the inexperienced man will not get two batches of exactly the same consistency. When these factors are considered, as well as the waste of ingredients which may be left over, it will be more profitable for the man who is to do his own painting or have it done by inexperienced help, to purchase a good quality of ready mixed paint adapted to the particular use for which the paint is If purchased from a reliable needed. manufacturer or dealer of known reputation, who advertises his goods in reliable mediums, one will be certain in this way to get good material properly compounded at practically the same cost as the ingredients required for home mixing.

The paint can be purchased in quantity to suit the immediate demands, and for ordinary home use in the doing of small jobs of painting the ready mixed paint will be most satisfactory. Care should be taken when purchasing to explain just what the paint is intended for in order to get a paint especially adapted to the purpose. much labor to apply a poor paint as a good paint.

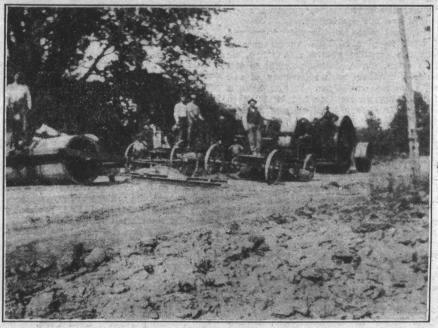
for the home mixing of the paint, just when it has been kept in stock for some ed paint would cost. as great care should be taken to get ma- time instead of being sold out while in a terials of the first quality. In the mixing comparatively fresh condition. of paints there are two elements to be considered; the pigment used and the ve- vehicle consisting of 90 to 95 per cent of good brush. It is impossible to do a sat- ers were busy with their teams and it

shades, is relatively expensive because of weigh about setter and the quarter wound with cord to form what is termed the few really good substances available pounds per gallon. About six and one- wound with cord to form what is termed for this use: the base used in the com- quarter pounds of the vehicle and 15 a "bridle," and as the brush is worn pounding of a good white paint, or a pounds of pigment is required to make a point of light shade, is ordinarily a pig- gallon of good paint. When white lead is lengthening the service of the brush. ment of white lead. Zinc white and oth- used alone and mixed by an inexperienced Many painters prefer a broad, flat brush pigments are sometimes added, ac- painter it will often "chalk off," er cording to the work to be done. In some zinc pigment will crack and peel, but rapidly, but inexperienced painters will colored paints cheap pigments may be where the paint contains both these pigused with satisfactory results.

ments as well as a small quantity of so-But for all paints a good quality of called inert pigments it will produce a brush. linseed oil is the most desirable vehicle more serviceable paint than either one



Spring Leveling of the Highways as done in Ganges Township, Allegan County.



Also a good quality of for carrying the pigment, to which is ad- alone, and it is for this reason that the paint should be purchased as this is the ded varying proportions of driers, depend- manufacturers of prepared paint who No. 474. cheapest in the long run. The cost of ing upon the character of the work to be have been experimenting for many years the paint is a much smaller factor in the done. Both pigments and oil may be of are able to turn out a product which is cost of painting than the cost of the la- low quality or adulterated, but it is the guaranteed to give satisfaction or which bor to apply it and it requires just as part of wisdom to get a good brand of is backed up by the reputation of responwhite lead and pure linseed oil. Even sible or reputable manufacturers at ap-pure linseed oil becomes "fat," as its de- proximately the same price which the in- a very efficient method of straightening Where the ingredients are purchased teriorated condition is technically termed, gredients of a good quality of home mix- up the highways after the winter travel

Paints of the best quality contain a sential that the paint be applied with a of Highway of Ganges township. Farm-

But there are other factors quite as and left them badly rutted. important as the paint itself. It is es- was done by Bert Miller. Commissioner

isfactory job of painting with a poor brush. For the inexperienced painter the most generally useful brush will be a round one with about six-inch bristles, or an oval brush of similar length. These hicle for carrying it. The pigment used linseed oil and from five to 10 per cent bristles are too long for proper working in white paint and paint of the lighter of a good drier. These ingredients will shades, is relatively expensive because of weigh about seven and three-quarters next the handle or binding should be down from use this can be removed, thus while the because the paint can be applied more not get the paint as evenly spread or as well brushed in with this kind of a

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

There should also be a suitable scraper for scraping flaky paint from the surface to be painted, and a stiff brush to remove the dirt and dust, a well cleaned surface being a most important factor in a good job of painting. In order to do a good job of painting a brush must be in proper condition. A brush can be kept over night by putting same in water, but if not used for several days it should be washed out, preferably with turpentine. However, it can be fairly well, and much more cheaply, washed out with kerosene, then afterward washed with soap and warm water, after which it should be thoroughly shaken out and hung up to dry, then wrapped up to protect it from dust before being laid away for future use.

The surface to be painted should be properly prepared. All knots in new wood surfaces should be coated with shellac to prevent the pitch in the wood from destroying the paint. New surfaces should be primed over with a thin mixture of paint. A paint of ordinary consistency to which is added an equal volume of raw linseed oil will furnish good priming material. After the priming coat is applied all nail holes and other rough surfaces should be puttied in order that the finished job m be smooth. All surfaces to be painted should be perfectly dry, as the presence of moisture underneath the film of paint will cause serious trouble. Many painters use more drier than is advisable in order that they may put on a second coat quickly. It is preferable, however, to let at least a week elapse between coats. On new work three coats will be required for a first-class job, but on buildings which are kept well painted one coat applied at a time at reasonably frequent intervals is sufficient.

Red paints such as are used on barns are made of a cheap pigment and a good quality of oil. The bright red paints, such as are used on implements, are lead paints, however, but where the user does not care to bother with mixing the ingredients the manufactured ready mixed paints are available for practically every use, and if purchased with a view to their adaptation to the particular use for which they are intended they will give a good degree of satisfaction.

These are the essential factors to be considered in planning and doing the needed painting on the farm. Those who become interested in the work and desire more detailed information, including interior painting, the use of calcimines, etc., can obtain same from U.S. Bulletin

### ECONOMICAL LEVELING OF HIGH-WAYS IN SPRING.

in muddy conditions has cut up the roads. The work

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WHEN you buy Paris Green, you want to be sure that it will do what you buy it for-kill potato bugs and other pests of their kind.

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New York Kansas City Largest makers of pure paints Pump Grind Saw MADE FOR HARD USE Wood Mills are Best Engines are Simple Feed Grinders, Saw Frames, Steel Tanks CATALOGUES FREE AGENTS WANTED Perkins Wind Mill & Englue Co. Est. 1860 185 MAIN ST. shawaka, Ind.

impossible to get horses to do the amount of plant food and whether this MILLET ON LOW LAND FOLLOWED tor was employed for the purpose. It is used. a 30-horsepower machine and cost \$10 per day, including gasoline and a man to portant part in determining how thick to operate it. Two road graders were at- plant the corn, that is, where there is tached to the tractor direct, one drawing any possibility of its being deficient at the earth up from each side of the road, any time during the season. Two King road drags were attached be- factor that seems to be overlooked to a hind the graders to level off the dirt in greater extent than the center, and these were followed by Farmers as a class do not seem to una heavy land roller. Two men, besides derstand the wet and dry soil conditions the one operating the tractor, one on as well as they do the rich and poor. The each grader, were all the help required in propositions are exactly identical. Just the one operating the tractor, one on as well as they do the rich and poor. The about six or eight more for corn. What each grader, were all the help required in propositions are exactly identical. Just kind of millet would you recommend? How much seed per acre? What time should it be planted? Is it cured like other hay? Is millet very hard on land? was undertaken another man with a amount of moisture. Considering that a team was needed to assist in turning at dust mulch is maintained then the chief the ends of the turnpike. The tractor source of loss of water from a soil dur-easily handled all of these tools and did full more work than the several machines leaves of the plants. If there are three would have done with horses. Three stalks of corn to the hill rather than two heavy teams of horses would have the stalks of corn to the hill rather than two the same stalks of corn to the hill rather from a soil. The about six or eight more for corn. What time about seed per acre? What time should it be planted? Is it cured like other hay? Is millet very hard on land? Is millet very hard on land? Spring after the millet. I realize that the farm should be tile drained but I can't get around to that for a couple of years. Would you recommend any other to preference to millet? Van Buren Co. Subscriber. heavy teams of horses would hardly have then the loss of water from an acre is cut as heavy a slice with the grader as very much greater. Where drouth pemoved with the tractor. Working riods are common or where the soil loses

least 18 horses and 11 men to have drawn plant less corn per acre. chines from eight to 10 miles in a day, where the stalks are much thicker supposedly of 10 hours. The expense for not far from \$1.50 per mile. Considering a most reasonable expense. Such an outfit would perhaps not be very practicable ture for turnpiking short stretches of roads, as too much time would be consumed in turning the separate machines at the ends, but for long strips it would doubtless be economical.

Allegan Co. EDWARD HUTCHINS.

PLANTING THE CORN.

After having the soil in a good condition and the seed ready to place in the corn planter, the next problem is to determine how thick in the row or how many grains per hill should be dropped. It is a common practice to plant just a few more grains than it is desired should grow in order to allow for some failing to germinate. This practice I consider a poor one, especially in hill dropping, for in every case if this theory is carried out at least one more grain per hill must be dropped. If the seed bed is in the best of condition and seed of good vitality is used then all the seeds planted in a hill will germinate. If a hill happens to fall in a dry, cloddy place then there is not much chance of any of the grains germinating. I have always observed on the home farm and on the neighbors' farms that the person who gets his seed bed in the proper condition and then plants the right amount of seed, will get the best results, provided other

more often, three, grains per hill is the common number used, regardless of soil and moisture conditions. If you have a piece of bottom land or hill land where moisture is always plentiful and a yield of 60 to 80 bushels per acre may be expected then, by all means plant three grains per hill. On slightly poorer land two seeds to the hill are sufficient. Where the soil is poor in fertility and inclined the most feed per acre.

for three, while the one stalk often pro- in same from this cause. duces nearly as much as two, usually about three-fourths as much.

young corn plant is crowded it is evident planted with a hand-planter. that about all it will do is to grow into Write Geo. E. Schairer, of Saline, Mich., for circular of the best combination hay and stock rack made, a soil will give up about a certain this point.

work at the time when it could be done food goes to form forage or grain lies most advantageously, so a gasoline trac- almost wholly with the system of farming

Jam v

THE MICHIGAN FARMER

The moisture supply also plays an im-This is a even fertility. with horses it would have required at water rapidly it is certainly necessary to A field of corn the machines that the grader handled, al- may appear too thin for the average year though perhaps the horses might have but if the season happens to be a dry covered a little more ground. In going one I have often noticed that the yield straight along the tractor drew the ma- is greater than on an adjoining field

In conclusion, I would say, first prepare leveling off the surface of the roads the seed bed well and obtain the best of should not have exceeded \$15 per day, not seed, but at the same time take into conallowing for use or wear of graders, or sideration that the yield you may expect is directly dependent upon the number the condition these roads were in when of plants per acre. In determining this dry weather came on this was certainly you must know your soil both as regards fertility and capability of retaining mois-

> Indiana. O. M. HAYES.

### FARM NOTES.

Land Plaster for Beans and Corn.

Land Plaster for Beans and Corn. I would like to know what you think of sowing land plaster with beans, with fertilizer drill. What effect would it have on beans? Do you think it would give them a better start or give a better crop? How would it be to drop plaster on hills of corn before corn is up? Montcalm Co. Land plaster is not a fertilizer in the carse that it contains any acculable plant

sense that it contains any available plant When the soil was comparatively food. new farmers very generally practiced sowing small amounts of plaster, particularly on clover seedings, with the result that it tended to release some of the unavailable plant food contained in the soil and converted it into an available form. especially potash, which had a beneficial effect upon some crops, notably upon clover, which is a liberal feeder on this element of plant food. As the soils became older and their store of available plant food smaller, however, plaster failed to produce the effect above noted and its use has been practically discontinued. For the reasons above noted it would not, in the writer's opinion, be profitable to use it either on beans or corn, as suggested in this inquiry.

Concrete as a Material for Granary Floor. factors are not overlooked. But, just what is the proper amount of seed to plant? This varies greatly with the fertility of the soil. Two, or Gladwin Co. J. E. W.

This is a question which has been discussed at some length through the columns of the Michigan Farmer in former probability this low wet land is deficient The consensus of opinion of those years. who have used concrete as a material for granary floors is that if properly laid on a well drained foundation and not used until thoroughly dry there is no danger make a meadow out of it I would seed it of grain spoiling from moisture absorbed to timothy and red-top rather than clothrough the floor. In fact, entire eleva- ver. to dry out rapidly a single stalk per hill tors are now manufactured of concrete ed with the timothy because this will may give the largest yield of grain if not and give entire satisfaction in use. The grow on land much wetter than red clothe most feed per acre. floor should be raised some distance ver will. It is too much of a speculation To be convinced that this is true it is above the ground level and preferably trying to grow corn on this kind of land. only necessary to study a detailed report laid on a foundation of coarse gravel or Unless you have an extremely dry season of some corn experiment where the num- cinders, while the soil about the founda- you can't expect to get a crop. After you ber of stalks and yield per hill are giv- tion wall should be tile drained if not have put all of your work into the crop Simply average up the yields per naturally well drained. If this method it will be ruined by too much moisture. hill with a certain number of grains and of construction is followed and the conyou will see the results. It is very com- crete is allowed to become firmly set and mon for the average yields of the hills well dried before using we do not believe with two stalks to be greater than that any damage would result to grain stored

### Planting Treated Seed Corn.

about three-fourths as much. In order that an ear of corn may be protect if from predatory birds and ani-produced it is first necessary to have a mals can it be successfully planted with stalk, the grain being formed last. If the voung corn plant is crowded it is evident O. C.

moisture required to produce the extra in a corn planter as in its natural condi- as to purity and germination and has stalks would go to make the one or two tion. We have had no experience with stalks larger and the extra plant food attempting to plant same through a corn would form a heavier ear of corn. In planter. Perhaps some Michigan Farmer other words, under the same conditions reader can give personal experience upon

MAY 17, 1913.

# BY CLOVER.

Three years ago I bought a 30-acre field about two miles from our home farm, of rather low land. We fitted six acres for wheat. The wheat did not show up very good so we plowed it under in the spring of 1912 and planted corn. Last summer was very wet and the corn only yielded some fodder. The land is very hard to keep clean, the wild grass-es keep coming up. My neighbors have raised some very good crops of corn in dry years. I would like to seed millet in the six-acre field besides breaking up about six or eight more for corn. What kind of millet would you recommend? How much seed per acre? What time

It is certainly pretty risky trying to farm on this wet land before tiling. In a very dry year Subscriber says that neighbors on the same kind of land raise fair crops of corn, but he had a wheat failure a corn failure which would pay for ditching the land, and that is the first step in the improvement of this land. There isn't much use in putting it off. The risk is so great in trying to raise crops on land that needs tiling as bad as this does that one can almost advise letting the land go bare, not trying to raise any crops on it at all unless he is able to go to work and tile it and get it in shape. It isn't profitable to put in a crop and have it all drowned out, or have it do next to nothing because there is too much moisture in the soil, and the first thing to do with land that is naturally too wet is to tile it. You can't get good results unless you do. Probably millet is as good a thing as you can raise on this land because you don't have to sow it until along in June, say the 20th of June. I have sown millet as late as the first of July and got a good crop of millet. Such season of the year, of course, the ground will be dry if it is dry at any time, and since millet is a quick growing crop it will come off before the land gets wet again by fall rains. I would prefer to sow Hungarian grass. This is a millet and it makes the best quality of hay. Sow a half bushel of seed to the acre. Many people would think that this would be too thick, but it makes a nicer quality of hay and finer if it is sown thick, and by sowing it thick you smother out weeds and have a better quality. This grass should be cut when it is in full growth before the seed forms and cure it as you would any hay. Mow it in the morning, rake it in the afternoon, and cock it up and let it cure in the cock. If you leave it over night after it is partially made in a swath and it gets wet with the dew it will bleach out and become dry and hard and unpalatable. I would not think of sowing this wet

land to clover. It will practically be wasting your time and your seed. Clover will not grow on cold wet land. It must be tiled. The probability is that this land is acid, that it doesn't contain enough lime. If you would drain it then by draining the water off at the bottom some of the acidity would wash out, and it would help to sweeten it, but in all in lime and a good application would pay. It certainly ought to be taken into consideration before trying to seed to clover. If you want to seed this land and make a meadow out of it I would seed it A little alsike clover might be mix-COLON C. LILLIE.

### ALFALFA.

### While it is true that the best crop on the farm is boys and girls, the next best crop is alfalfa. If you want valuable information as to the best methods of growing it, let us send you such information and sample of Seed free of charge. We make a specialty of high grade hardy Northern Grown Seed, sure to grow and a stalk, whereas, if a less number of There is no doubt that seed corn so thrive in Michigan, if a little well direct-plants were in the hill the fertility and treated would not work as satisfactorily ed care is exercised. Our seed is tested been found the best obtainable. Write today.

Mention the Michigan Farmer ALFRED J. BROWN SEED CO., Grand Rapids, Mich. (Adv.)

# Horticulture.

SUCCESSFUL METHOD OF HANDLING the latter part of the season and furnish STRAWBERRIES.

the strawberry and it is easily grown, growth, leave out the nitrogen and apeven by any novice, on a great variety ply the potash and phosphoric acid. One's of soils. Of the many varieties there are good sense and judgment should be his those suited to soil and climate require- guide. ments of all states. Here in this section of the state, the Wilson, Warfield, Prof. O. K. White, of the M. A. C., who Brandywine, Sharpless, Glen Mary and gave a lengthy lecture on insect pests many more old standard sorts do remark- and fungus diseases with which the orably well. Of the more recent varieties, chardist has to contend. The lecture was the Corsican does best with me. This illustrated with drawings on canvass of berry requires a deep rich soil and high how the diseases look under a compound culture for best results and that is what microscope. we aim to give it. It is a mammoth sized color up well, stands local shipment niceted row

ways. I make rows six feet between and plants two feet apart when setting in the row, and as I set beds only during early spring this intervening space between open with a weak solution for scab; just rows is invariably drilled to black-seed after the pollen has fallen with poison onions in rows about 14 inches apart for added to the solution for codling moth. easy tending, with a hand cultivator. In Arsenate of lead is considered the best tending the one crop, both crops are kept and safest poison to use. Use three clean and the strawberries respond to pounds of arsenate of lead to 50 gallons clean and frequent cultivation as well as of the solution for codling moth. If there the onions do. Being spaced six feet the are canker worms use five pounds of the berries run and set just about right to arsenate of lead to 50 gallons of the soleave a space in the center to pick from lution. Spray every two or three weeks and by the time the vines throw out runners the onions are bottoming, which keep the scab under control and mainkeeps them, to a great extent, from setting too thickly. We have the whole piece free of weeds by this time and cultivation ceases, except for pulling of stray the second brood of the codling moth. weeds which may come on later. In the Emphasis was placed on the importance fall the bulbs are pulled and topped ir- of driving the poisoned spray into the regardless of the young plants near them, calix, or blossom end of the apples, when which I find, after all, delight in having spraying just after the pollen has fallen, the soil loosened. Then the onion tops, as that is the place where the little usually rank, are distributed as a partial mulch over the field evenly. I thus get usually attack the fruit. big returns from onions the first season from my new berry field, besides giving ning the fruit on the trees was taken up. the plants clean and frequent culture. It is the only method by which a uni-Bear in mind, this is rich soil and the form and good quality of fruit can be seseason following the onion crop is always our heaviest berry production for the there seemed to be a difference of opinbed. We set new beds each spring and never allow more than two fruitings in succession from one setting of plants. G. A. RANDALL. Gladwin Co.

### THE OAKLAND COUNTY HORTICUL- ties until the last. TURAL SOCIETY.

The May meeting of the Oakland County Horticultural Society was held at E. J. Van Duyn's fruit farm near Novi, on Saturday, May 3. The attendance was very good, considering that it is a busy time of the year with fruit men.

the business of the society, such as arranging the programs for subsequent profit. The law should define what is meetings and planning for special work in the interest of the members of the should be made a penal offense for a society. Plans have been made to use a dealer to sell number two or inferior cut of the Steele Red apple on the sta- fruit as number one fruit. Too much tionery used by the members of the or- cheating is practiced on the part of the ganization, as Oakland and surrounding dealers for the good of the fruit growers counties are considered the home of that and consumers. best of all winter apples that has characteristics distinctively its own. In no much to educate the fruit growers and other portion of the country does the should be attended by more of them. Too Steele Red seem to do as well, or make many wait to learn by example from such generous returns for the labor be- their more enterprising neighbors, which stowed, as in Oakland county and ad- means that they make progress slowly.

Mr. W. D. Flint gave an excellent talk on "Orchard Cultivation." He emphasized the importance of thorough cultivation when undertaken at all. Cultivation promotes the growth of the trees, subdues portant part, the yield per acre depends weeds, helps to retain moisture, conse- upon every hill doing its part. This can quently increases the size of the apples, only be accomplished by planting seed breaks up the nesting places where in- that is of high vitality. Corn selected for jurious insects live and increase, and bur- seed purposes should be tested and provies diseased leaves of the former season ed to be good. The better the vitality, which helps to control some of the fun- the more bushels of corn to the acre. gus diseases.

tion before setting the trees. Cultivate upon request. the fore part of the season to promote the growth of the young trees and use a cover crop to check the growth during (Adv.)

a mulch to protect the roots during the Where commercial fertilizers are winter.

No early fruit is more popular than used, if the trees are getting a rapid

The entire afternoon was given over to

The different kinds of sprays were deberry, good all the way through, and of scribed and instructions given for the the very best quality, requires room to application of the same. Reasons were given why different kinds of spray mixly and where once introduced customers tures are used, and the effects of differare crazy for it afterwards. It is not a ent kinds of poisons. Spraying with poiprolific plant-maker with me, but after sons serves a double purpose; it kills the all, makes sufficient plants for the mat- insects and keeps the foliage healthy, a matter of great importance, as the leaves Strawberries are cultured in many are the lungs and stomach of the trees. Spray when the tree is dormant with a strong solution of lime and sulphur for San Jose scale; just before the blossoms with the weak solution and poison to tain a healthy foliage. Spraying for fungus diseases is a preventative, not a cure. Spray about the first of August for worms from the eggs of the codling moth

> The matter of the importance of thincured. As to the proper time to thin ion. Some prefer to wait until after nature has done her work in what is called the June drop. Then begin thinning on the most of the fall and early winter varieties first and leave the later varie-

Mention was made that consumers in the city of Detroit complain that they are unable to buy first-class fruit from their dealers. The fault is not with the growers who would be glad to furnish good fruit to consumers at a fair price, but the street hawkers and dealers buy inferior fruit because they can get it The forenoon was taken up largely with cheap, and then sell it to consumers at a good price, thereby making a large number one and number two fruit, and it

These monthly meetings are doing Wayne Co

N. A. CLAPP.

### GOOD SEED CORN.

While the selection plays a most im-Our Fire Dried Corn which has been se-If he were to plan to set a new or- lected especially for seed purposes, is of chard, Mr. Flint said he would first en- high vitality, some of it showing a test rich the ground with barnyard manure, of 96 to 98 per cent strong germination. and then subdue it by thorough cultiva- Ask for samples and prices, mailed free Mention Michigan Farmer.

ALFRED J. BROWN SEED CO.,

Grand Rapids, Mich.





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Dairy.

CONDUCTED BY COLON C. LILLIE. BARN VENTILATION.

I intend to build basement for a barn 36x46 ft., with end entrance, having horse stalls on one side and cows on the other with feeding alley in center. I want to install a ventilating system in walls. My wall will be 2½ or 3 ft. above the ground, 16 in. thick. I think by using 3-in. tile and elbows, and put elbow flush to outside, just low enough to take one length of straight tile, then elbow in about 4 in. below overlays, this would not be a direct intake, and it would give room to use all I want, by using sides only for intakes. I have only 40 acres so will keep two or three horses, and from two to 10 cows. Now, how many intakes as described, do I want? Do you think the one end outlet in center about 6x12 in inside measurement, enough or not? Is it best to run this outlet shaft through roof or not? It will spoil the looks of my roof to build a small roof over it. Will roof or not? It will spoil the looks of my roof to build a small roof over it. Will you please outline a plan for me, not too expensive? Will have 10 or 12 two-sash windows in the wall. I want plenty of Wabt light. Osceola Co. L. V.

I think your idea of ventilation is correct, but I'll tell you frankly that I don't merits, and if there existed the slightest like the idea of having the stable down in the ground so far. If your wall pro- and publish it. jects only two or three feet above the ground that means that your stable will be down into the ground some four or five feet. I don't like this kind of a stable. I would build the stable part entirely above the ground. Even the floor of the stable ought to be high enough above the ground so that no moisture from the outside could ever run into the stable. This makes a healthier and better stable. There is nothing gained so far as expense is concerned, when you figure the extra cost of excavation in putting the stable down into the ground. It will cost no more to build an approach to the first story of your barn than it will to make this excavation for the stable, and you will have a better barn for animals to live in than if you put it down into the ground four or five feet. If you have it farther above the ground you can put in your pure air intakes in ditions are to a large degree within the them open at the bottom on the outside and up next to the ceiling on the inside. Now there ought to be more of these intakes than you really need and ought to be distributed all around the barn so that when the wind blows hard in one direction you can stop up the intakes on that side and still have enough pure air intakes to furnish all the pure air needed for your stock. Otherwise, the force of the wind will drive so much cold air into the stable that it will cool it off too much ately. in real cold weather.

Your ventilating shaft ought to be at least a foot square. I would make it a foot and a half square. I don't believe that would be any too large for a barn that was 36x46, and it certainly ought to project up through the roof. Of course, after you have got it up to the plate of the barn then you could make a bend in it and run it up the roof and out the cupola, which would answer very well, although you won't get as good circulation, there will be so much friction in this joint, as you would if you run up through the roof and as high as the peak of the barn, or higher. What do you care about the looks? The all-important thing is getting a sanitary stable, a stable in which animals will do well. After you get a ventilating shaft and see it on the barn once you wouldn't think the barn would look right without it. You could make the same criticism with the chimney on the house and say you didn't end of her career. like the looks of it, but really a house Nature does not don't look right without some kind of a chimney on it.

after you get it built if you have the ties not easily reconciled to the practice feeding alleys on the outside and the of taking milk from a pail. I'he trainer broad alley between the cows so that you can drive through and load the manure dencies by getting the calf to hold its directly on trucks or a manure spreader. You certainly ought to investigate this the bucket so as to insure the milk not proposition carefully before you arrange the barn with the feeding alley in the

### BUTTER AND CHEESE SCORING CON-TESTS TO BE RESUMED.

There will be four educational scorings In so doing his head can be readily diconducted for the benefit of Michigan rected into the bucket. Where the finger butter and cheese makers by the Dairy is placed over the nose of the calf, after and Food Department this summer. The the usual manner, it becomes necessary

Please mention the flichigan Parmer when writing to advertigers.

MAY 17, 1913.

in connection with the state fair in September. Blanks, rules and shipping in-structions are being mailed; should any fail to receive those sent address the department at Lansing with request for A diploma of merit will be issued more. to all who have butter or cheese scoring 90 points or over. The department is anxious for the co-operation of all butter and cheese makers of the state.

### DOES SILAGE SHORTEN THE LIVES OF COWS?

Does silage shorten the life of the cow? have heard it advocated that it did. Mason Co. A. N. F.

Again, I cannot conceive how a man would ask this question, living in the state of Michigan, with silos in almost every township in the state. Silage absolutely is not injurious to cows or any other stock to which it is fed. I have fed cows, sheep and horses silage for years, and it is a healthful food. It does not shorten their lives, but rather tends to prolong them, because it is a succulent food fed in connection with other dry feed, always tends to better digestion better assimilation and a more and certainly is reasonable to suppose that the thousands of farmers who have used and are using silage have learned its fault every wide-awake man would know

## HANDLING THE DAIRY CALF.

The effort to secure a more efficient type of dairy cow has centered attention upon the dairy calf, and commands that every reasonable condition be provided that will serve to develop the promising calf into an adult of all-around dairy quality. Thus it is highly important that the calf have continuous growth, for should it be required to pass through some hardships that impair development. to any degree, it is more than likely that when the animal comes to be a dairy producer the results of neglect will be evident. The calf should not only be surrounded so as to provide this continuous growth, but such an environment is needed as will give it a rugged constitution and proper disposition. That these conpossibilities of the dairyman to provide, is apparent to careful students of the dairy business.

There are differences of opinion as to the best time to remove the young calf from its mother. Some argue from the standpoint of labor while others look to the interests of the animal. Because it is easier to teach the calf to drink from the pail before it has been allowed to suck, many would take it away immedi-Others more patient in this regard and being willing to forego some inconvenience in teaching the calf to take milk from the pail, leave it with its mother for from one to three days. These latter men are aware of the importance of the calf's securing the first milk, or colostrum, from its mother. This is a natural provision for purging the diges-tive system of the young animal and preparing it for receiving other nourishment. Since the best dairymen follow the latter method it seems wise for the novice to pattern after them.

One of the disagreeable duties on a dairy farm is teaching the calves to drink. Yet it is a peculiar fact that some men are far more successful in this work than are others. Whether it is because their methods are peculiar is a question. Nevertheless, it appears that those who exercise patience succeed best-this quality being an important one in the handling of the dairy cow from her birth to the

Nature does not develop in the calf the instinct IOL drinking, from a pail. It is natural for the little animal to lift its I think you will like your barn better nose high in the air and bunt, two qualimust, therefore, overcome these two tennose down into the bucket and to hold being wasted. The writer has had the best success in getting the calf to incline its head downward by holding the hand under the lower jaw with a finger near the calf's lips. This will cause him to incline his head in the proper direction in an attempt to get hold of the finger. first will be held during May and the last to force his head downward by main

strength, which is not an easy task, es- out suddenly, but a small quantity of pecially should the calf be a strong, vig- skim-milk or sour milk should first be orous individual. As noted above, how- introduced and then the amount gradually ever, any method tried will demand that increased until after several days when the instructor be patient and as kind as the full amount of the substituted mateconditions will allow.

To protect the calf against contracting scours and allied alimentary troubles, clean utensils should be used in feeding and clean quarters be provided for re- precaution should be exercised as to the straining the youngsters. Frequently calves are fed from a wooden trough. denly from warm to cold feeding. While such a receptacle may be used A few other essentials should be men-without apparent harm, in the event that tioned. Fresh air, sunshine and exercise the sun shines upon it constantly and need to be looked after and provided for. thereby renovating it after each meal, yet Salt supplied regularly effects similar rethe chances are nine out of ten that it sults upon the calf that it does on adult will soon become sour, get in a fifthy con- animals. A piece of sod thrown into the dition and be the source of infection for pen, if the calf is kept inside, will be enthe above mentioned troubles. Wooden joyed. When flies are bad give it a cool pails are likewise objectionable. Strong, dark place to lie in during the heat of galvanized pails make serviceable and sanitary receptacles for feeding. They may, however, cause trouble unless they of these pests. are cleaned every day. The stables, too, Where many calves are raised stanch-should be kept free from filthy manures ions become indispensable. The illustraas is be provided where necessary and some the buckets used in feeding the calves.

rials is fed. This permits the digestive organs to accommodate themselves to the change and will obviate any incon-venience to the young animal. A similar temperature of the milk, not to turn sud-

the day, and a spray with some fly repellant will also relieve from the annoyance

too frequently the condition on tion on this page illustrates how these most ordinary farms. Clean straw should may be made and shows the position of

Feeding Calves Becomes a Pleasure when Stanchions Are Used.

be scattered about the premises. If milk is fed only when in the right condition, the calf will be well insured against being stunted. This means, first, that the feed should be of the right tem-perature, which is somewhere around 90 degrees Fahrenheit. When the temperature gets below 70 degrees it is not safe to feed it to the young animal. A second the milk. When the calves are young they should not be fed sour milk. Sweet weaned. In feeding separator milk remove the froth before offering it to the calf, since it occasionally causes colic.

When the calf is about four weeks old BREEDERS' ASSOCIATION CREDITED it should be fed a little grain and hay. WITH PROMOTING PARTY The rule usually followed by dairymen is to start feeding these feeds when they change from whole milk to skim-milk. A small handful of grain dropped in the bottom of a bucket after the milk is fed will, after a few days, lead the calf to eat it. Ground oats or linseed meal may be used for this purpose. Unless in a good pasture the calf should also be given access to some bright clover hay, which it will early learn to eat.

The quantity of feed given the calf is issue. a matter too frequently disregarded and Breeders' Association was organized did often leads to trouble. The amounts re- all the farmers take an interest in dalryquired vary with the individual, but ordi- ing. From the organization of this assonarily from five to seven quarts of milk ciation has come better dairy cows, betneeded every day until the calf is about three weeks old, after which the caring for the cows. Also, better methods quantity should be increased to from sev- of handling the product from their herds, en to nine quarts. If possible, continue viz., the organization of the Litchfield feeding milk till the young animal is Co-operative Creamery. The whole proparound six months old. When the change osition summed up is this: Here is a is made to skim-milk a temptation to community of intelligent young men, well feed liberally shows itself, but this should organized and working for the betterment not be indulged in as most calves will of their business and all working togethdrink more than is good for them if al- er. It is not by chance that one receives lowed to do so. At six weeks of age \$160 per month for butter-fat from 11 the average calf should have about a half Jerseys. It is by hard work and study pound of mixed grain per day and at and the use of good business ability, in four months of age it should consume selecting, breeding, care and feeding the about two quarts of mixed ground grains cows that bring this amount, also by getper day.

in the handling of the calf is changing or ough organization. The Litchfield dairyintroducing feeds. When substituting men are organized and are all working skim-milk for whole milk or sour milk together. "Go thou and do likewise." for sweet milk it should not be carried Ingham Co.

disinfectant, like lime, should occasionally The use of stanchions prevents the objectionable habit of the calves sucking each other, a practice which occasionally is highly detrimental to the health of the individual animals. The stanchions also decrease the amount of labor necessary to care for the calves, in that one man feeds a dozen as easily with the stanchions as he does one without. By the use of pails each calf is given its own allotcondition is with regard to the acidity of ment of milk, which does away with the objection of feeding in a trough where the calves that drink rapidly get more milk ought to be continued for at least than they should have, while the more three weeks, and better until the calf is modest drinkers are deprived of their just share.

### Wayne Co. SUBSCRIBER.

WITH PROMOTING DAIRY INTEREST.

I was very much interested in the article in your paper of May 3 from J. A. Kaiser, Hilsdale county, entitled, "Growing Interest in Dairying."

Mr. Kaiser does not seem to get at the key to the situation in dairying at Litchfield. The Litchfield creamery has been running for 12 to 15 years but the farmers in that vicinity made dairying a side Not until the Litchfield Jersey methods of feeding, better methods of ting all the product is worth before it One of the important matters to watch goes to the consumer. That means thor-W. F. RAVEN.

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# Wears Like Iron—Feels Like Silk

We mean just that. The CADY Farm Shoe is not an experiment but it has been worn for many years by thousands of farmers who will not have any other brand. They know the CADY is differ-ent and that it not only wears like iron but is pliable and gives positive comfort. You can wear The CADY out in the field, in the barn and barnyard with the assurance that it is as water.

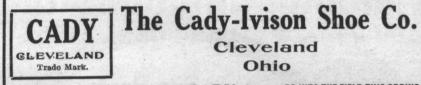
barnyard with the assurance that it is as water-proof as a leather shoe can be, and can not be affected by manure.

The CADY is made of solid leather thru-out—there are no pasteboard insoles, heels or counters. And the leather—known as Tuff Hide—is tanned by a special process that insures you a shoe that is easy on the feet and will give the wear every farmer demands demands.

Note these special features of the CADY: Full length heavy double sole with slip, whole vamp, Blucher style, bellows tongue that keeps water, snow and dirt, and has outside counter pocket.



The CADY is made in Black (No.  $673\frac{1}{2}$ ) and Chocolate color ( $669\frac{1}{2}$ ) both the same high quality. Look for the trademark on the Sole and be sure it's a CADY.



BE SURE YOUR FEET ARE SHOD with the CADY when you GO INTO THE FIELD THIS SPRING



# Poultry and Bees.

### GUINEAS FOR PLEASURE AND PROFIT.

There seems to be a good demand for of the country. A flock of White guineas guineas in nearly all of the large mar- can be easily kept almost anywhere withkets, and this demand is rapidly increas- out interfering with other poultry, and ing, as the excellent qualities of these there is profit, as well as pleasure, in birds become known. Those who have it. Our market facilities are not the best, learned to appreciate the guinea, as a here, and yet I have found the guinea to table fowl, are not slow in expressing be a profitable fowl. surprise at the fact that this bird is not more extensively raised.

or fried, is delicious to say the least, while an older fowl may be cooked by any recipe devised for the cooking of chickens and the result will be as good, months, if they have a good range. If if not superior. Those who relish the there is an orchard or pasture near by wild, gamy flavor, consider the guinea the guineas will stay there the greater fowl equal to our native pheasant. For part of the time. They require some reason, the guinea makes a good substitute for the wild game birds which from hawks. A field where there is a are so rapidly becoming extinct. Some natural growth, such as small bushes or of the hotels and cafes in large cities tall grass, makes a very good range durserve young guinea fowl for pheasant or ing the summer and fall. However, it is grouse. not often that White guineas wander far

can raise turkeys, as they require about the same kind of care. A few guineas should be kept about the premises, if for surprising distance. no other reason than that they are use-ful as "watch-dogs." The high, shrill The high, shrill notes which they utter will quickly put to flight any hawk or crow on mischief bent; while after night, no prowling ani- to house them by themselves especially in mal or person can approach a house winter when they have to be confined. where guineas are kept without starting Guineas cannot endure much cold. If a chorus of discordant cries. Their sense of hearing is marvelous.

The two varieties usually raised in this country are the White African and the Pearl. They are about the same in size and shape, but quite different in other ways. In color the Pearl guinea is dark with small white spots, while the White African is pure white with bright yellow beak and shanks. The white guineas present the most attractive appearance when dressed for market, because the small pin-feathers do not show. I used to raise Pearl guineas but found they were very difficult to handle. During the laying season they would "steal" their nests some distance from the buildings (usually in a meadow) and before they could be located they would sometimes have such a nestful of eggs that they would desert it. This happens when several guinea hens lay in the same nest. They dig their nests out so deep that the eggs are sometimes several layers deep. If they sit on such a nest of eggs. as they will sometimes do, the result can be imagined.

They resent intrusion, and if their nest is approached while they are near they will leave it and make a new one some distance away. If they leave it of their own accord, that is, if the eggs get too numerous, they will usually begin another nest close by. If the nest can be found while the eggs are still few in number, they should be removed daily with a large spoon and replaced with nest-eggs. Or, better still, to be on the year. He took 127 pounds of the best safe side use no artificial eggs but remove all but a few, every other day, and if they are wanted for hatching purposes be sure that the fresh ones are removed ished sections to piece out the honey in each time.

Guinea eggs are as good as hen eggs for table purposes, but are much smaller. They are too small for market purposes. All of the guinea's eggs are laid during the yield of hay was clear gain, proving the summer months. Or, rather, to be the truth of the claim in our title. more accurate the usual laying season is But to do this he commenced from about the first of May until the very early, thus stimulating to brood latter part of August. This will vary a rearing, and had a strong swarm ready little at times, however, depending more for the first fruit blossoms. Good ven-

some years ago, I started with the White seemed crowded, overcame the tendency African. because they are more domestic in habit. few rods away kept the workers contin-They stay with the chickens a great ually busy. By gradually increasing the deal, even laying their eggs in the hens' acreage of clover, supplementing with a nests. As a rule, a White African guinea. good field of buckwheat, a single farm of hen will only "steal" her nest before be- moderate size would carry an apiary ginning the last laying in a season, and large enough to yield a goodly profit; this then it is apt to be only a few rods from would at the same time provide for keepthe house and therefore easy to locate. ing up the forage crops of the farm and They can often be found easily, just by building it up in fertility, as nothing can listening for the peculiar sound of their do better than the legumes. In a region

prices in large markets than others, for everything the bees garner is that much the reason stated above. It would seem extra. 160-page the reason stated above. It would seem that this should induce anyone to keep

the White instead of the Pearl, but for some reason the latter variety seems to be most extensively raised in this part

The guinea is a great bug catcher, a nore extensively raised. A plump young guinea, broiled, baked ing of insects. They will devour injurious worms and beetles in a garden, and they do not scratch, as a rule. Their feed costs very little during the summer shade in summer, and some protection The guinea is an interesting bird and from home. Such a range is more es-can be easily raised by any person who sential to the Pearl variety, although the White African will wander quite as far as a Leghorn hen, which is sometimes a

> As stated above, White guineas are less wild than the Pearl, and will lay their eggs in hens' nests. But all guineas are "bossy," and for this reason it is best winter when they have to be confined. they are let alone and not confined in a house, during a blizzard, they will fly onto a tree or roof and stay there until they die of cold and hunger. 'The guinea is a native of warm climates and therefore needs good protection from the cold. Any poultry house that is sufficiently warm and comfortable for hens will answer for guineas. But it must be above freezing to be comfortable.

(Concluded next week), ANNA W. GALLIGHER.

### SEED CLOVER GRATIS.

Ohio.

Such an announcement in the advertising columns of any paper would either lead to a general rush for the seed or a denouncement of the whole thing as a And yet good seed may be obfake. tained for nothing from a reliable firm, if we only go after it in the right way. All admit this; and yet with the high prices that have prevailed for the past season many have striven to solve the problem indirectly in some other way than seeding as heavily as heretofore.

It is well known that bees and clover are mutual factors of gain, the insects, through their cross-fertilization, greatly increasing the yield of seed, and at the same time collecting much of the choicest nectar. Last season one farmer in Pennsylvania made a record which we believe to be the greatest ever recorded outside of the southern apiaries, where work is continued every month in the alsike honey from a single swarm of bees. and later an even 100 pounds of buckwheat, leaving quite a quantity in unfinthe lower frames, which usually keeps the swarm over winter. This alone paid for the seeding of a few acres near the hive to timothy and alsike mixed, and

But to do this he commenced feeding r less upon the climate and season. tilation and an abundance of room, with Having disposed of the Pearl guineas, more supers added as the section boxes They are much easier to handle to swarm, while the clover field but a voices, while they are still on or near where alfalfa can be grown, the gain the nest. All guineas "cackle" alike. through the bees may be still further in-White African guineas bring higher creased. And bear in mind the fact that

BESSIE L. PUTNAM. Pennsylvania.

MAY 17, 1913.

# Live Stock.

### WHEN THE PIGS ARE WEANED.

previous to that time that it is not getting much sustenance from its mother, the skin soft and easily irritated. But that little helps wonderfully, there- I think dirty collars almost as responed earlier than those that have never been given a feeding pen of their own. In all cases circumstances will have to dirt and scales from the skin. soon. ing will not do for the sows must be each day. bred at a certain time. Where the litters are smaller, and in these cases it is oil. This not only keeps the collar clean, a good plan to take away one half the but renders the leather soft and durable. pigs, leaving the weaker ones with the I have noticed the horse collars used by sow for a few days longer. One or two farmers who complain of their horses of the weakest pigs may even be left for having sore shoulders, and have almost a week or two. With this method of invariably found dirty, poor fitting col-weaning the sow's udder will dry up in lars or pads. Some teamsters think the perfect condition, and at the same time only cleaning a collar needs is to rake off the weaker pigs will be given a good the dirty accumulations with a knife start.

The male pigs should be castrated before they are weaned. At that time, if rough surface and often the operation is rightly performed and leather. conditions are favorable afterward, they will grow off with no appreciable set- the young horse is to not allow him to do back. But if they are allowed to run un- a full day's work until he gets used to til they are great big fellows, they will his job, and also until he ceases to fret. receive a setback when castrated, from Jerking a horse into and out of the furwhich a few may never recover. After row, permitting him to work with his castrating, arrange for shade in case the weather turns hot immediately and and down, are good means to develop provide plenty of pure drinking water and clean sanitary beds.

passed safely there are still many responsibilities for the swine breeder to hand I sometimes add a small bit to the meet. serve in feeding the growing shoats is to help toughen the skin. to allow them at their regular meals every ounce they will eat up clean, providing the ration is a reasonably well bal-

of that kind it is best to have a harness maker fit the collar to the shoulder. The weaning period is a critical one have seen collars that fitted badly made to in the young pig's life. Some farmers conform to the shoulders by removing a wean their pigs entirely too young. A small bit of the padding and taking up pig is not ready to depend altogether on the surplus leather caused by the same. feed from the trough before it is at least I never use heavy collar pads, as they ten weeks old, although it may seem are hot and become saturated with sweat, keeping the shoulders wet and rendering

fore the mothers should be so fed that sible for sore shoulders as ill-fitting ones, they will keep up a good flow of milk and I always see to it that the face of until the pigs are old enough to depend the collar, (the part next to the shoulder), fully upon themselves. Pigs that have is kept clean of dirt and other accumu-learned to eat freely can safely be wean- lations. In the early spring the horses is kept clean of dirt and other accumushoulders are covered with long hair which becomes matted with sweat and This I govern to a great extent the age at which keep removed by using a little warm the pigs are weaned, but the mistake water and soap occasionally, followed should not be made of weaning them too with a good brush. As soon as spring Some farmers let them wean has advanced enough for them to begin themselves, but if the sows are to raise to shed I clip the hair off the shoulders two litters a year this method of wean- and use the brush regularly three times

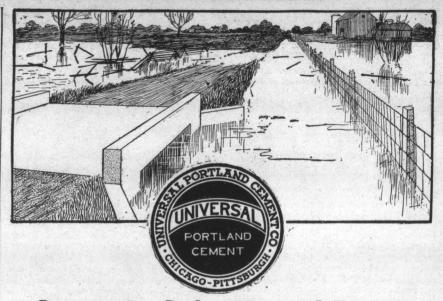
I give the collar a good cleaning each ters are large the pigs are not so large night by using a little water and harness in size at a certain age as when the lit- soap, occasionally followed with a bit of blade or piece of tin. This is not the proper way to clean since it leaves a injures the

Another precaution I use in regard to head to one side, or throw his head up sore shoulders. After the collar is removed from the colt I find it a good plan After the weaning period has been to sponge his shoulders with pure, cold If I have a little tannic acid at water. A reasonably safe rule to ob- water before sponging. The acid seems Texas.

A. M. LATHAM.

### LIVE STOCK NEWS.

ery ounce they will eat up clean, providing the ration is a reasonably well balanced one. An abundance of skim-milk is a valuable help at this time. Forage crops will also assist materially in the finishing process. Not only do forage crops will also assist materially in the gains made from these crops are attained at far less expense than similar increases on grain alone.
 During hot weather shade and an abundance of drinking water are very essential for the shoats. Hogs suffer much in hot weather without shade and get weakened in vigor. A few trees in the hog pasture are always desirable, but when these are lacking sheds should be constructed. Water for drinking must be given four or five times a day. Much labor can be avoided here if a tank or trough drinking nearly all the holp themselves to a drink at will, and on warm days one or more will be at the trough drinking nearly all the time. The practice of keeping a constant supply of water before growing pigs will add 20 or 30 pounds to each one's growth during the summer and fall.
 PREVENT SORE SHOULDERS.



# **Concrete Culverts and Fence Posts Stand Firm in High Water**

The spring floods have emphasized the instability of wooden structures. The high water washed them from their foundations and carried them off like kindling wood. Had they been solidly built of concrete, they would have withstood the flood. In repairing the damage done by high water, rebuilding fences and culverts, use

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during the summer and rai. Indiana. W. F. PURDUC. PREVENT SORE SHOULDERS. More horses are taken off of duty in the spring on account of sore shoulders than from any other cause. The care of the young horses' shoulders is one of the most important factors I bear in mind during the first few weeks of work, and in sore shoulders. I could not permit a horse with pain in his shoulders to be driven to the plow, as it is not only uruel, but the work he does is always. My observation in dealing with horses are too large. Some horses are hard to fit with collars, and if one has an animal

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### DETROIT, MAY 17, 1913.

CURRENT COMMENT.

County Agent J. H. Skinner, of district engineers where needed. month. Kent county, who directed the campaign, states that he considers it an entire success, the attendance and interest at the gested, which holds just as great possi-meetings throughout the county being bilities along other lines. The same prinbetter than he had anticipated. At the ciple applied to the establishment of co-32 meetings held in five days there was operative rural credit would hold a large an attendance of something like 5,000 measure of the same possibilities as this people, and the names of about 400 farm- plan of financing a scheme for govern-

Perhaps the strongest point in this campaign is the system of follow-up work which is planned in order to get personal direction and instruction to the farmers who are co-operating in this campaign on their farms, which will insure a large percentage of successful object lesto other farmers throughout the sons county.

educators mentioned in another column, nearly 100 delegates, chosen for their fit-

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The Michigan Farmer Established 1843. Established 1843. Barber 100 the construction and maintenance of to the construction of allone because of its

year three per cent government bonds. The plan further contemplates the credit- lustrated in that staple product of Miching of each state every year with the igan, the potato crop, this year, and as excess of the one per cent interest paid by the state over the interest which the crop last year. government pays upon its bonds, together with three per cent interest compounded official investigation of European co-op-annually on the excess of the one per eration may be the first step toward the By this means a sinking fund cent. would be established from which the government would pay off the bonds at the the work of this commission and the earend of 50 years and the states be re- nest work which must follow before these lieved of the payment of the principal of ends are realized, the earnest thought their bonds deposited with the government. Further provisions of the plan reader. provide for the maintenance of roads, the government to pay to each state annually for road maintenance an amount equal two per cent of the amount of the to bonds on deposit, provided the states ex- the sentiment has spread until now it is pend a like amount for the same purpose.

Under the plan there would be constant co-operation between the states and the federal government without placing the to be known as Mothers' Day in Michi- 

 DMMENT.
 states under the control of any federal gan.
 Following the precedent, Gov. Ferbureau or department in the execution ris has issued the following proclamation:

 In another col- of the work. It also contains a sugges Never did the word mother have a

 The Alfalfa Campaign. umn will be found tion for the establishment of a national broader and deeper meaning than it has today. The welfare of the world is re-a brief account school for highway and bridge engineer-of the alfalfa campaign conducted in Kent ing to educate trained specialists as a containing the early days of this means of supplying competent state and month. County Agent J. H. Skinner, of district engineers where needed.

were secured who signified their in- ment aid in road building, provided a tention of sowing from one to ten acres feasible plan could be worked out which of alfalfa during the next 12 months. would be adapted to our modern American conditions.

ularly in relation to co-operative agricultural credit has an important task be-fore it. Aside from the federal com-Aside from Mr. Skinner and several of missioners appointed by the President, his colleagues in county demonstration whose names were given in a recent ishis colleagues in county demonstration whose names were given in a recent is-work, as well as prominent farmers and sue of the Michigan Farmer, there are special acknowledgment should be made of the services of Prof. P. G. Holden, in commission, coming from every section

In the construction and maintenance of good roads. A plan recently submitted to the committee by Mr. Bourne is wort thy of mention, not alone because of its maintious character, but as well because of its real. With a proper interest and support from the great body of American farmers the the several states upon the basis of area, population, assessed valuation and road construction fund among the states upon the basis of the United States treasury their 50-year fore cent bonds for the government to bonds for the purpose of road construction. The government funds for the purpose of road construction to the government to the states the par value of such bonds for the purpose of road construction. The government funds for the purpose of road construction to the government bonds. The plan further contemplates the creditwas illustrated in the southern cotton

> eration may be the first step toward the solution of these problems in our agriculture, and to that end we bespeak for and attention of every Michigan Farmer

Mothers' Day.

in the state of Pennsylvania. Gradually a day quite commonly observed in many states in the Union. Former Gov. Osborn was the first to designate a date

<text><text><text><text><text><text><text><text><text><text><text><text><text><text> means of supplying competent state and district engineers where needed. Whether or not the plan is adopted it contains a lesson in finance as above sug-gested, which holds just as great possi-bilities along other lines. The same prin-ciple applied to the establishment of co-operative rural credit would hold a large measure of the same possibilities as this plan of financing a scheme for govern-ment aid in road building, provided a feasible plan could be worked out which would be adapted to our modern Ameri-can conditions. Co-operation and mission now on its Sentiment. way to Europe to study co-operation as exem-plified by the farmers of Europe, particular ularly in relation to co-operative agricul-

sary. We bespeak an appropriate ob-servance of Mothers' Day by the great family of Michigan Farmer readers.

MAY 17, 1913.

# HAPPENINGS OF THE WEEK.



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

### American Slaver Convicted First as irate

LL along the New England coast one hears of the buried treasure of Captain Kidd, king of pirates. AS the old men, in the twilight time of life, er, tried and convicted under the law of stories of the past, they also whisper, convicted of piracy in America. with bated breath, of the slaver, Captain Even before this there had bee history.

Nat Gordon was a Maine man born in Portland. Down on York street his home in mid-ocean, where pirates landed now made frequent attacks on unarmed merstill stands, one of the older Portland and again to divide their treasure; where chant vessels. This was the time when "Guilty." residences, built in 1740 by the father of slavers sometimes plashed their oars West India waters swarmed with pirates the slaver captain. Three stories high, it through shallow waters to the shore. In and slavers; and, when it suited them, was one of the largest square-roofed those times there was easy interchange it was an easy matter for the slaver to and the few people present accepted the houses of its day and, when built, was of trade to suit the exigencies of the case, turn pirate and the pirate, slaver. Such verdict in matter-of-fact fashion. It did called one of the finest in the city. It and the slaver made brave showing with a state of affairs caused the passage of not dawn on them that they had assisted has three chimneys, and the roof pitches his more rapacious brethren for his share the bill that became the act of 1820. four ways, running to a point at the top. of the booty looted from some foreign-McLellan was the architect, a man who bound ship of commerce. No absolute the slave trade show how the nation felt New York redeemed her attitude of inbuilt many of Portland's old-time home- proof of such a circumstance in Captain at that time in regard to the abominable difference. Motions for a new trial were steads. First owned by the Gordons, the Nat's career has come down through the house became the property of Thomas years, but there are stories of rich silks 5, 1820, and on May 12 a resolution pass- ing, November 30, Captain Nat Gordon Fagan in 1879 and now belongs to J. R. and jewels, of gold cups and vases found ed the House "That the President of the stood up and heard his sentence, the Libby.

With its deep fireplaces, its richly carv-

A finely carved piece of the parworkmanship was lor mantel, and Thomas Fagan gave it to a citizen prominent in Portland history. Later the brass knocker was presented to the same man. All the finish of the house, the hand rails, runs of the stairways and the balustrades were of carved mahogany.

The blackest period of the country's history was that of the American slave trade, and the dreadful fate of Captain Nathaniel Gordon marked the beginning of the

end of the infamous traffic. When Nat Gordon was a young fellow at his Portland home he heard much of the slave trade, of the adventurous life of the slaver, of the mystery of the barracoon; and it is probable that the romance of the tale wrought on his youthful imagination long before he understood its commercial value.

The horrors of the slave ship, the tragedy of the middle passage, were not then known to the boy who lived in the square-roofed house on York street. A

much charm of personality, young Gordon

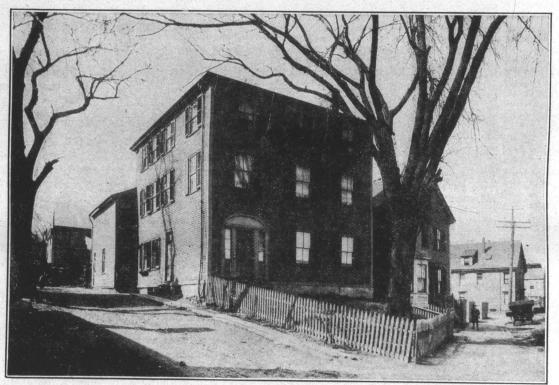
## By CLARA NEWHALL FOGG.

in the house on York street.

ed mantels of rosewood and mahogany, that Captain Nat took the Erie to Hav- of the United States are or shall be acand its fine finish, the house is a very ana and completed an outfit for the slave credited, on the means of effecting an engood type of colonial style. All the hinges trade that he had bought in New York. tire and immediate abolition of the slave and, when the usual question was put, and bolts on the doors are of rolled gold The three slave voyages made by him trade." plate-not a mere wash, but genuine gold. had proved remarkable in the way of

Then came the punishment of Captain from the Indies by ships' crews, home- try to realize the conditions which pre-

The sections of this act pertaining to traffic. The bill became an act on May United States be requested to negotiate court room was packed with people who



A Mansion of Nearly Two Centuries Ago-The Home of the Slave Trader, Captain Nat Gordon.

companionable lad of likable ways and profit, and he was anxious for another. He sailed forty-five miles up the Congo 30th of January, 1823.

years but was made perpetual on the ed to lamp posts by New York mobs. But

on and as at Gordon's first trial he had secured a disagreement of the jury, according to all the laws of precedent he gather on the shore and tell strange 1823 as a pirate—the first slave trader Nat Gordon. Under the law of 1820, he the people read the war news and there stories of the past, they also whisper, convicted of piracy in America. was almost certain to go free again. So Even before this there had been strange turned out a matter of difficult adjust- It was on November 8, of a Friday even-Nat Gordon, of Portland, and his tragic tales of the popular captain brought back ment. To understand this law one must ing, when Judge Nelson delivered his charge and at seven o'clock the jury reward bound; of picturesque isles far out vailed at that period when the privateers tired. After being out but twenty minutes they came back with the verdict,

Captain Nat was apparently unmoved. There was no scene in the court room, not dawn on them that they had assisted in the making of history. But next day, after the verdict appeared in the papers, denied, and when, on a Saturday mornstood up and heard his sentence, the It was in the summer season of 1860 with all the Governments where Ministers crowded to see the first American slaver convicted as a pirate.

Captain Nat took his sentence calmly stated that he had nothing whatever to The law was limited to a period of two say. Judge Nelson ordered that the slav-

er be executed "between the hours of noon and three in the afternoon of February 7, 1862, hanged by the neck until dead.'

Nat Gordon's friends made the greatest efforts to save him. When, on February 7, news came of a two weeks respite by the President, it was thought he had com-muted the sentence, but Marshal Murray undeceived Gordon as to this, telling him there was absolutely no hope. On the last day of his life one of his lawyers sent word that the governor of the state had sent an appeal to the President, and requested that the execution be deferred until the answer came. Marshal Murray told him it had been arranged with the President that no telegram from any source should interfere with the demands of justice.

The morning of the execution dawned, a clear, cold February day. There had been whispers of a mob that had vowed to break into jail and rescue the prisoner. It was a stormy time in the nation's history, and before that negroes had been hang-

the Government was prepared. It was

was even then a leader. Quick to learn, into the interior, where he discharged a Tried and Condemned as Slaver. resolved that Gordon should die, that no he was a keen observer, and as he grew cargo of liquor; then he made the Erie Captain Nat Gordon was condemned mob should free him. Early that mornolder he realized that no trade paid larg- ready for her return voyage with the but he had powerful friends who worked ing, just after the midnight hour rang er returns on its investments than that cargo of slaves which he took on board strenuously in his behalf, and when the out, a guard of eighty marines marched the slaver. near the mouth of the river. This was case first came up there was a mis-trial. from the navy yard to the city prison. From the time the unnamed Dutch the seventh day of August; the slaves Later, a new administration came in Entering the yard they loaded their of the slaver. trader of 1619 sailed up the river to were packed 'tween decks and Captain power and a new district attorney, E. muskets with ball cartridges and fixed Jamestown with a cargo of slaves on Nat sailed for Cuba. Eight hundred and Delafield Smith, was in office, a man who their bayonets. The groups of men linboard, to the days of Abraham Lincoln ninety slaves he took with him, and of never compromised by juggling with the gering in the neighborhood of the prison and the suppression of the nefarious traf- these only 172 were men; 106 were women law. Gordon's second trial was Novem- slunk away; there was no attempt to fic, the slave trade was a disgrace to the and the rest were boys and girls. It was ber 6, 1861. Ex-Judge Dean and P. J. rescue by mob. country. But older and wiser men than easier to carry children, and safer. Joachimson, both men experienced in Not until that morning did Captain Nat The Erie, sailing with her dreadful car- cases of this nature, defended him. Judge give up hopes of pardon. Friends had Nat Gordon did not hesitate to share the profits of the business and he followed go, was seen and captured by the Mo- Nelson presided. A jury was obtained in conveyed, secretly, to him a dose of the example of men even better born hican, United States warship. The slaves two hours. strychnine and this he managed to swalwere taken to Liberia, and Gordon and than himself. As was customary at that time when low unobserved by the guards. But he Just how Nat Gordon became a slaver his ill-fated vessel brought to New York the captain of a slaver was arrested, the was not to escape the shame of the galis not known, but it is probable that for trial. plea was that Gordon was a passenger. lows. The doctors saved him and he was while pursuing a legitimate business as As the ship had been taken with the The slave captains, ever in danger of arconscious when led from his cell. Just commander of a ship, he fell in with men slaves on board, the evidence was plain rest, always took with them on their voybefore the noon hour the marshal came who had amassed wealth in the unlawful and she was condemned and sold at auc- ages some foreigner, and when their vesand read the death warrant, asking the traffic. Young and ambitious, he grew tion in October of that same year. Al- sels were boarded by allen ships, they prisoner if he had anything to say. every year more covetous, and it was though she measured but 500 tons, she turned the command over to this man. In firm voice Gordon made this remarkafter his third voyage as commander of brought \$7,823.25, showing that she was At first people failed to take much in- able speech: the Erie that he was captured as a slav- a staunchly built ship. terest in the trial. The Civil War was "My conscience is clear, I have no

fault to find with the treatment I have though it was, this speech was untrue, self, worthy once more to enter his fath- pleading his unworthiness, she clung to received from the marshal and his deputy, but any public man who will get up trial was read carefully it was found say.'

\* \* \* Made in the shadow of the gallows words from his lips. 

for when the stenographic report of the er's door.

in open court and say to the jury, 'If you that the district attorney's words con- he slipped out just as they were singing truthfully glad at the unlooked-for reunconvict this prisoner I will be the first tained nothing to confirm Gordon's state- the last hymn. He did not dare trust ion to be annoyed by his poverty-stricken man to sign a petition for his pardon.' ment. One learns, from the record of the himself to stay longer. Slipped out and appearance, all the time pouring out her and will then go to the Executive to pre- hanging that has come down through the started for his barren little room a few story of the loved ones at home; of the vent his commuting the sentence, is a years, that Gordon went to the gallows blocks away, determined not to give way father who had long since forgiven, and man who will do anything to promote his pale with terror, his head hung over his to the longing that possessed him. But the mother whose heart was breaking for own ends, I do not care what people may shoulder, and had to be supported as he before he had reached his rooming house, the return of her son, finally adding stood under the fatal beam. Thus he that dominating yearning in his heart thereto the tale of her own sorrowing, his went into eternity, a black lie the last overpowered him, and he turned back.

> the success of the meeting, was wending at all if I hadn't gone down to that little its way cityward. Merle and her com- mission. Oh, but I'm glad-glad," squeezpanion, lagging a little way behind the ing his arm joyously. And her brother, two gentlemen, approaching. Turning aside a bit for the the unlooked-for tenderness of her recephurrying pedestrian to pass, they were tion, bowed his head and inwardly prayed, surprised and half affrighted when he "God make me worthy." wheeled about abruptly and faced them.

> The older woman, annoyed and sus- she planned, when their companions had picious, would have ignored the strang- considerately withdrawn themselves a liter's outstretched hand and hurried Merle tle way. "Yes, you are," and when he dealong to join their escorts, walking on murred and pleaded that he must first ahead, engrossed in their own conversa- "make good," she still urged, "you must tion, and as yet unaware of their com- come home first. Mother has waited long panions' detention, had not something in enough. 'Twould break her heart if you the quality of his speech made her pause. didn't come-and father-father's not as dressing Merle. "Don't-you-know-me?" and his voice was husky and full of feel- you, but-don't deny them the joy of seeing. And then suddenly Merle gave a ing and forgiving you now. That's the glad cry, and breaking from her com- first step." And, catching his hesitating panion's restraining hold she clasped his downward glance at his shabby clothes, hand in both of hers and leaned eagerly "Never mind those," she begged, "I have toward him. "It's Ben," she breathed money with me. We'll go shopping the exultantly. "Oh, Ben! My Brother Ben," first thing in the morning; tonight you'll while the quick tears streamed down both stay at the hotel with me, and we'll go their cheeks.

> "Yes, Merle—it's me," he answered such glorious news as this." brokenly. "I didn't intend to make my- And when he had come." self known to you. But I couldn't help message had gone on its way, even the it. I just couldn't help it. I wanted-to very wires sang joyously, for though they hear-" his voice breaking, "About all of only carried a few simple little words, us," she finished for him softly, "and so yet they bore wonderful rejoicing to that

> And when he would have drawn away, was returning.

PLOWING THE FIELDS FOR CORN.

### BY CHARLES H. MEIERS.

They're plowing the fields, and the smell I love the farm in winter-Shut in from all the world. Outside the falling snowflakes Makes life seem fresh and toil seem worth Far more than a load of care. When I hear the plowman's voice I sigh For the place where I was born, And I long for the peace that I knew when I Was plowing the fields for corn Was plowing the fields for corn.

And I've journeyed far since then; And I've journeyed far since then; And I never toiled upon the farm As I've toiled with a writer's pen. And oft when the springtime bree blow

breezes I go forth in the early morn To view the scenes that I used to When plowing the fields for corn. used to know

Though I find much joy as the years

go by In the life that I'm living now, When the springtime comes I always sigh And wish I might go and plow;

For there's peace, and health, and happiness

BY MILDRED M. NORTH.

love the farm in springtime-When the grass grows green again; Then each day I look and listen For the blue-bird and the wren. When

And then the fruit trees blossom,

The skies at close of day.

And wave-rocked seas of grain, he bright blue skies and sunshin The showers of welcome rain;

MAY 17, 1913.

him and drew him along with them, in-But he did not go to the altar. Instead troducing him to her companions, too little fair-haired sister who loved him in A few moments later the little delega- spite of his wild ways. "And only think," tion from the convention, flushed with she exulted, "'I'd never have found you heard footsteps rapidly wholly repentant, and truly humbled by

"And you are going home with me," "Don't you know me?" he asked, ad- well as he used to be, Ben. You can We'll all help make good afterward. "Is it-can it be-you- right now and send a telegram to mother really you?" giving him a glad little and father. We mustn't keep them wait-

old home, because a son that was lost

All gold and purple haze, King Midas' touches showing Down all the woodland ways.

Shut in with those who love us We have no wish to roam. 'Tis then we prove most truly The dearest place is home.

In green of spring or summer, In flame-hued robes of fall, Or winter's snowy garments, The farm is best of all.

Lady (at the jeweler's)-Is this diamond genuine?

Jeweler-As genuine as your own hair, madam. Lady-Ahem-let me see something else.

Mr. Jawback-My dear, I was one of

Mrs. Jawback-Oh, you always say that.

Mr. Jawback-I can prove it this time. Look out in the hall and see the beautiful umbrella I brought home.

### YOU HAVE THE OPPORTUNITY

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By PEARLE WHITE M'COWAN. The great convention hall was packed She felt her companion's detaining hand

Merle Dunsmore's Sacrifice.

the halls and craned their necks to catch disappointment. And yet she arose. a glimpse of the fair young singer, whose sure consciousness that this was her "oftender rendition of the old hymn was fering" which she had no right to withwinning their hearts.

warbling voice trailed out in, "Saviour thy dying love, Thou gavest me,

Nor should I aught withhold, Dear Lord, her comrades, who knew what she had from Thee,"

losing one single note of the sweet old most fulfilled dream, rallied her senses tune.

Merle Dunsmore was not a great singmen's hearts by the simple gift of hymn in her heart. singing. And now, thrilled by the enthusiasm of hundreds, and by the sight of all over the room, and the uplift of in- the mission. There were the two speakspiring words and sermons, she sang with an abandon and joy that captivated all party who, seeing the girl's persistence, her hearers.

glowed with exultation and happiness, tion of two strangers, had volunteered to Adulation is very sweet to the young, chaperon her. and it would have needed one far less acute than she not to have read the silent approval in the upturned faces of that wast audience.

More than this, she counted herself a lucky girl just to be able to be here. It had taken considerable management and some sacrifice, but the result was proving well worth the price. Already she felt repaid for the efforts put forth and all the former self denial. The whole con-vention had been a glorious treat, each session an uplift, and the best was still to come.

On this, the last evening, Madame Lfamed the world over for her wonderful vocal talents, had consented to grace the occasion with her presence, and two solos. It was for this that Merle had really come. For years Madame Lhad been her idol in the musical world. Almost all her life she had longed to hear that great prima donna, and this was her opportunity-her dream was about to be fulfilled. It was almost too good to be true.

But listen, the chairman is speaking. "We have already arranged for two overflow meetings tonight, but word has just come to us that down on Water street there is a little mission that has been kept open ever since its foundation, five years ago. Its laborers have missed many a good thing because they felt it their duty to be there. Can we not send a delegation down there tonight from this great convention, to take charge of their meeting, and leave those workers free this once to come and take advan- poorly lighted room, which hungrily de-tage of the uplift and inspiration that voured each word and tone and look. they will receive here? We'd like about two speakers. volunteer?"

A moment of shence, and then the solution of memories that hurt and lashed and I love the farm in summerthe afternoon arose. "I'll go," he said softened a heart made harsh by criticism Its fields of new-mown ha simply, and the audience, spurred by re- and blame and a too intimate contact The busy bees, sweet-laden, ligious fervor, clapped. ment, and a young man over in a corner with a great yearning for the home and arose. He, too, would go, and again love that he had spurned. It brought there was applause.

Then the chairman made another request. them?" and Merle felt a sudden tighten- angry, and unforgiving, and a little fairing of her throat strings. Who would do haired sister who had loved and clung to that? What singer could be induced to him despite his who and heads trong ways. leave Convention Hall that night when And he had rejected it all. "Sold his I love the farm in autumn— there was such a musical treat in store? birthright for a mess of pottage," and he Its leaves of red and gold, She looked around over the vast con- would have given his life, and all its un. Its tiny folks all busy Preparing for the cold; that? course of faces. No one volunteered. The alturing prospects, to have been back seconds ticked themselves off—and still there basking in the love of home and no one offered to go. A full minute rolled dear ones just for one little day. Bitterly away into space. "Perhaps they can get he upbraided himself, as he had done The hoarse-voiced katydid. course of faces. No one volunteered. The alluring prospects, to have been back along without a singer," began the chair- many times before, finally resolving to man doubtfully, and then-Merle arose.

to its utmost. Men stood on tiptoes in upon her skirt. She was aware of keen A hold, was thundering itself into her very With rare insight for one so young, being. The applause of the people meant she has instinctively known that men still very little to her now. She could have love the old songs best, and as her liquid cried in vexation and disappointment. Yet she knew that she must go.

The meeting over, the reproaches of sacrificed to come, and how it meant the men held their breath for very fear of abandoning of her long cherished and aland brought her to an unyielding defense of her act. When they suggested that er. She was one of those who know their there was still time to change, she met limitations and do not aspire to fame. them with firmness. Already the sensa-But unto her it had been given to touch tion of well doing was making itself felt

That night a little group picked its way gingerly through the slime and mud of the little blue and gold badges scattered Water street and made its way toward ers, Merle, and an older lady of her own and not being quite willing to let her go you shall.' The song finished, Merle's face still to such a place merely under the protec-

> Chance remarks showed that some of the party were still more or less disappointed at missing the evening session of the convention. Nevertheless they were They're plowing the fields, and the smell I love the farm in winter— all determined to make this little service of earth, in Water Street Mission one to be re-Turned up to the balmy air, all determined to make this little service in Water Street Mission one to be remembered.

When they reached the doors they found the place already crowded. News of the expected coming of some "big bugs" (in Water street parlance) had quickly sped and drawn an unusual at-But I left the fields with their healthful

tendance. From the first the meeting was a success. The enthusiasm of the big convention had spread even to this little out of the way mission. The congregation sang with all the gusto and lustiness of the illiterate. The afternoon convention speaker outdid himself in forceful, logical statements that carried conviction and weight. The young man followed with pleadings and entreaties that brought strong men to the altar. And then Merle sang-another of those old sweet songs that everybody loves. A newer hymn that everybody loves. A newer hymn would have failed to reach Water street hearts that night, but "There Were Nine-Were I plowing the fields for corn. Mr. Jawback-M Mr. Jawback-M Mr. Jawback-M Mr. Jawback-M ty and Nine" brought tears to many an eye.

Clear on through the whole five verses, ringing in the pathos, and the glad cry

"Rejoice I have found my sheep! And the angels echoed round the throne Rejoice, for the Lord brings back his own." Merle sang and, singing, failed to note the eager eyes, back in a corner of the When dauntless pussy-willows,

She could not know how one young Who'll be the ones to man's heart was touched to the breaking How the old hymn, sung by this With wealth of perfumed beauty ceed singer, brought back a flood Whose life is all too fleet. point. A moment of silence, and then the one fair-faced singer, brought back a flood Another mo- with an unkind world, until he yearned back memories of a mother tenderly The pleading, with tears in her eyes, for him the chairman made another re- pleading, with teals in her order, training the early mornings, "Who will go and sing for to mend his ways; and of a father, justly Its dew-gemmed early mornings, and Merle felt a sudden tighten- angry, and unforgiving, and a little fair-The twilights, cool and late, . Who would do haired sister who had loved and clung to the some bird, half-awakening, Colle are the mate What singer could be induced to him despite his wild and headstrong ways. begin that night to make a man of him- I love its days of glory,

Are

THE OLD FARM.

In sleeping-bags of fur, re calling from their lookouts That sap is all astir.

I love its shady forests,

sunshine,

Calls softly to its mate.

LITTLE FARM FABLES.

## BY AUNT QUILLIA.

Getting There.

A herd of cattle having learned that Farmer Wiseman had thrown his meadows open for the summer and had invited all stock for miles around to come in and get free pasture, a few of them fell to discussing their good fortune.

"While I am thankful for the privilege," concluded Shorthorns, "I can't understand why he should have done this thing. Not another farmer about here would have thought of being so liberal, though their pastures are much finer and more numerous."

"Why, my dear greenhorn," replied Sir Galloway, "It is not an act of charity at all. He is simply doing it for his own benefit. Wants to fertilize you know. What is your opinion Hoofit?"

"I have neither opinions nor curiosity concerning the matter," replied Hoofit. "My chief interest is centered on getting there. Wouldn't give a straw for the motive. As the bars are to be closed by sunrise tomorrow, and those first on hand are to have their pick of the lots, it seems to me that all of us should be thinking about getting there, and getting there on time."

During this discussion most of the herd had been dozing or quietly chewing the cud, and soon after Shorthorns and Sir Galloway joined them.

Hoofit fell to ruminating—in a way also. "Get there," thought he, "that is my watchword, and get there I will. Not only are my own advantage and reputation at stake but the honor of my breed. Everybody knows that I come from the longest line of thoroughbreds in the old country. Ambition has always been our motto. Our family escutcheon is lost and I have been selected to design another. One thing is certain. 'Get there' will be emblazoned upon it and stand forth in letters that will challenge the admiration of the world."

So all night long while the stars circled above him, bringing midnight, then the wee small hours, then cock-crow, and finally the first hint of dawn, Hoofit stood with head above the enclosure intent on his plans of getting there.

This was in the day of the old worm fence, and long before midnight he had the rails displaced in order to facilitate the final break for the highway.

When at last a cloud of dust heralded the approach of a long line of grass-seekers, with tail erect and a snort of defiance, Hoofit tossed aside all remaining obstacles and, with one bound, plunged into the midst of the caravan.

On his way to the front he trampled on many of the younger and weaker members of the company, leaving them to die of heat and thirst, broke the legs and smashed the ribs of stronger ones, and even gored the sides of others until the blood ran down in deep red channels to the ground.

At last Farmer Wiseman's premises were reached; the bars were still down and, with one wild leap and a snort of victory, Hoofit landed inside of the green Eldorado.

Selecting a retired lot through which a clear creek ran, and believing himsif to be the sole occupant thereof, he began reviewing his success and chuckling thereat.

Presently a serious countenance peered at him through a clump of bushes. It was the face of a venerable friend whom he had long supposed dead.

"We have a choice lot indeed," began old Durham, "but having heard your methods of getting here I can't say that I congratulate myself on my company.

"Years ago I attended a state fair, and while they were tying the blue ribbon on me two judges fell to discussing a speech they had just heard. The theme was Success, and the speaker had closed by quoting these words: 'If, in getting there, as you call it, you leave your principles behind you, the best part of you does not get there.'

"Now, we are not supposed to possess principles, but we have plenty of good instincts and, although you are here hoofs, horns, and hide—that is all. The finest part of you was left in the race Do you call that getting here?"

"I'm a self-made man," said the proud individual.

"Well, you are all right except as to your head," commented the listener. "How's that?"

"The part you talk with is too big for the part you think with."

# No-Rim-Cut Tires 10% Oversize

# **Our 11% Reduction**

On April 1st, we reduced our prices on No-Rim-Cut tires 11 per cent, on the average.

This was partly due to lower cost of rubber, partly to multiplied output.

### **Rubber Prices**

Cultivated rubber is becoming so plentiful as to force down the price of Para.

For the twelve months ending March 31st, we paid on the average \$1.09 per pound. On March 31st, the price of rubber was 88 cents per pound.

On the other hand, fabrics, in the same time, advanced 15 per cent. Labor cost materially advanced.

So, on tires in general, lower cost of rubber has led to no large reduction.

### **Factory Cost**

But Goodyear sales have doubled over and over. Immense new factories have been com-

pleted, with the most modern equipment.

Our output is the largest in the world. In motor tires it is nearly ten times larger than three years ago.

It was this multiplied output, in main part, which justified our 11 per cent reduction. Our policy is always to give you every cent we save. To keep our profits down to 8<sup>1</sup>/<sub>2</sub> per cent.

That is one reason why Goodyear tires far outsell all others.

### **Our Profits**

At the end of each year we advertise our profits. This is to assure you that in Goodyear tires you get all the value possible.

In times past this profit has averaged about  $8\frac{1}{2}$  per cent. And this reduction, in our opinion, keeps it that low this year.

Under this policy, and with our vast output, it will never be possible to sell equal tires for less than Goodyear prices.

### **Cost Per Mile**

There will always be tires selling under Goodyears, until all learn that lesser tires don't pay. Tires can be made at half the Goodyear cost, by the use of cheap compositions.



But we shall see that you never, in any tire, get lower cost per mile. And that's the only right way to figure. We shall never offer, at any price, less than the utmost in a tire.

### No Extra Cost

No-Rim-Cut tires, since this reduction, cost no more than any standard make of clinchers.

These tires never rim-cut. And 23 per cent of all old-type tires are ruined in that way.

In air capacity, No-Rim-Cut tires are 10 per cent larger than clinchers. And that, with the average car, adds 25 per cent to the tire mileage.

Yet these new-type tires, with all their advantages, cost no more than old-type tires without them. That's why hundreds of thousands of motor car owners

have come to No-Rim-Cut tires.

Your tire upkeep will be immensely lowered when you adopt them, too.

Write for the Goodyear Tire Book—14thyear edition. It tells all known ways to economize on tires.

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



11-591

Women and Her Needs.

At Home and Elsewhere.

This Will Help You Select Your Paper.

OR some reason best understood by leather and grass cloth for dining-rooms,

## MAY 17, 1918.

### **CLEARED AWAY** Proper Food Put the Troubles Away.

Our own troubles always seem more severe than any others. But when a man is unable to eat even a light breakfast, for years, without severe distress, he has trouble enough.

It is small wonder he likes to tell of food which cleared away the troubles. "I am glad of the opportunity to tell of the good Grape-Nuts has done for me," writes a N. H. man. "For many years I was unable to eat even a light

breakfast without great suffering. "After eating I would suddenly be seized with an attack of colic and vom-iting. This would be followed by headache and misery that would sometimes last a week or more, leaving me so weak I could hardly sit up or walk.

"Since I began to eat Grape-Nuts I have been free from the old troubles. I usually eat Grape-Nuts one or more times a day, taking it at the beginning of the meal. Now I can eat almost anything I want without trouble.

"When I began to use Grape-Nuts I was way under my usual weight, now I weigh 30 pounds more than I ever weighed in my life, and I am glad to speak of the food that has worked the change." Mich. Read the little booklet, "The Road to Wellville," in pkgs. "There's a Reason." Name given by Postum Co., Battle Creek,

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

# We Pay For Your Help

When you have the chance to easily make some money, won't you take it? It will mean money in your pocket if we can provide your friends with our un-usual combination insurance for non-us-ers of alcoholic liquors. This insurance pays an income during disability from any kind of accident, in addition to insuring the life for a substantial sum. Rates are lower than usually paid for life insurance alone. This is the only policy in exist-ence giving special low rates to temper-ate people. ate people

### Here Is Our Offer

Just send us the names of a few of your friends who ought to have this kind of protection and we will present the ad-vantages of the insurance to them, with-out using your name unless permitted. When the policy is issued and paid for, you will receive a liberal commission. That's fair, isn't it, and worth a few minutes of your time to get your list in first?

### This is a case where promptness will pay, Write to-day AMERICAN TEMPERANCE LIFE INSURANCE ASSOCIATION

253 Broadway. Dept. 40-A. New York



501 Main St.

Shirley, Mass.

# wish to be strictly up to date.

Now a crown and a cut out border are

Stand and the stand the Car Ball Start Start Ball and Street Ball Ball

### Cut-Out Borders Frame the Walls.

ors, such as gray and blue, belong in cut out border is used frequently at the

bed. Light green will show off the brass this usually makes the room look overto a better advantage, while the tan or done. If the room is large, say 16x16 or brown will make an ideal background for 14x20, or some such size, it could stand mahogany furniture. Light green is also the border continued. best for quarter-sawed oak. I suppose niture.

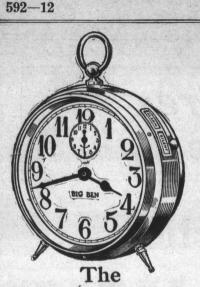
If you are to paper, stop and consider color of your rug and the sort of furni- quently made with a liner.

sunny rooms, that we have the lesson bottom of the room as well as at the top, thoroughly learned. The paper man gave when a plain paper is used, and adds me two or three hints, however, which greatly to the beauty of the room. In were new to me at least, about the putting it on at the bottom, in a small sort of paper to use if we wish to show room, it is better to stop at openings and up our furniture to the best advantage. begin again on the other side. Some con-One of them is, do not use a tan or tinue the border around the sides and ellow paper in a room with your brass across the top of windows and doors, but

Occasionally a wall is paneled with a if we stopped to think of the colors which border, or a "liner." A liner is a rungo best together we would know those ning band in a conventional design, while things without being told, but most of borders are usually floral. When the us have the habit of picking out the pa- room is paneled, the border or liner is per we consider pretty, or that we can simply run around the outside edge of all afford to buy, without regard to our fur- four walls, not down each strip of paper as was done for awhile in dining-rooms.

Now that plate rails are abolished, the your room, its exposure, its height, the break in the dining-room wall is fre-A beautiful ture. Then choose the color which will dining-room can be secured by using an fit. Tan's and yellows are very popular imitation leather for the lower part of LIES and mosquitoes, one of Clark's Fly Exits at-this spring for living-rooms, imitation the wall, say five and a half feet or six exits, 100 ca., 31 doc. Dr. L. W. Clark's Carterille, MO.





# **Biggest** Thing in the **Clock Business**

Big Ben is the biggest thing today in the alarm clock business. He is only two years and a half old. but he's already getting more work from the States than any clock alive. Irom the States than any clock alive, Inttwo years and a half time, 18,000 jewelers-70% of the total number of United States watchmakers — have already adopted him. Two million and a half families leave it to him to call them up in the morning. Two million and a half families use him all day long to tell the right time by. He is really two good clocks in one— a crackerjack of a timekeeper and a crackerjack of an alarm.

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

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



It only costs a postal to get everything. Write it now. MEAD CYCLE CO., Dept. S-77 CHICAGO, ILL.





dwellings.

### woman herself the sound of the and the light papers in stripes and colofirst robin and the glimpse of the nial effects for bed-rooms. If your ceilfirst crocus is inseparably bound up with ings are low, say not more than eight the smell of strong soapsuds, paint, var- and a half feet, use a striped paper to nish and paste. Nature sends her March give the appearance of height. The drop winds and April showers to sweep and ceiling with the picture molding a foot wash the old world clean, and we, being and a half down the wall is entirely out. naturally imitative, can not help copying The molding must go to the ceiling and her. So we make clean and fresh our a crown or cut out border used if you Most of us are going to paper one or more rooms, and those who are not going two different things. A cut out border to paper now will want to before the is sold by the yard, the price ranging summer is over. There are certain rules from eight cents to 20 cents for livingwhich we have read and heard so often rooms, while crowns are individual de-that we all know by heart, such as not signs which are made to exactly fit the putting gray or blue paper in a north design at the top of your strip of wall room. We have been told so often that paper, and cost about 15 cents aplece. those rooms which get little sunlight need Crowns are usually used with paneled papaper that suggests the sun, such as yel- per, while the cut out borders are good low or tan or perhaps red, while cold col- with paneled paper or plain effects. The

### THE MICHIGAN FARMER

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feet from the floor, and a Tiffany tapes- of spending your money for "dope." take try for the upper wall, with a liner har- it to a competent physician and let him monizing in color with both papers sepa- tell you what is wrong with your child. rating them. Of course, the upper part Always remember that a healthy baby is will be lighter than the lower and the a happy one, and the reverse is equally celling still lighter. These Tiffany papers true. A cross baby is not well, are very beautiful. The pattern is indis-Household Editor:-How can are very beautiful. The pattern is indis-tinct like the patterns in a Dresden rib- cold baked beans?-Mrs. C. bon. They come in gray, tans, greens, in fact, all colors. But while they are beau- Simmer the beans in boiling water ten tiful and popular they do not give as minutes, using cup for cup. Then force good service as a plain paper.

brown or russet, you will do well to well and serve. choose grass cloth for the lower portion and Tiffany, or oatmeal, or even a plain paper for the top. Don't choose a grape border, though, even if the dealer does advise it. Get a cut out floral border or a simple liner with a Greek key or other conventional design. Grapes were good seven years ago, and while some dealers are still showing them, they were worn out long ago.

If you are wise you will not paper your kitchen. It will get two or three coats of pale green or tan paint. But if you can not paint, by all means get a glazed paper. You can get these for 35 cents a roll. They will not absorb steam and moisture and can be washed like paint or oilcloth.

Light colors, green, French blue or plish in good health by practicing with French pink, grays or yellows, are any thought what we read. of them good. Do not choose a floral de-sign, however, but rather a stripe or cre- time." Dear mother, "I have no sign, however, but rather a stripe or cre- time." Dear mother, while you are rest-tonne effect. Papers with roses and ing think on these things. Do not wait as you can readily imagine the two do they are tiny posies arranged in stripes, you choose on that account.

Nursery papers, that is, papers with Mother Goose pictures, are out. They had a short vogue for children's rooms, until it was found that the children really didn't care much for them. Most chil- time. We can get just what we are lookdren have a few pictures of their own ing for. If you are looking for something for their walls, and these never showed up well against the nursery paper.

HOME QUERIES.

Household Editor:-Since living where I now do I have found a moth, different from any moth I ever saw. All I ever saw before were long ones, called feather moth. These are small and round. Don't where furs and flannels are, but where aten by them unless once in a while a break in carpets is caused by them. Still that may be from other causes. Can any-not tell me what they are and what to to to get rid of them?-Mrs. M. S.

Take all carpets and rugs out doors and beat thoroughly. Then drench with gasoline and roll tightly. Place in an unused room and leave 24 hours, after which unroll and air thoroughly. In the meantime wash all floors and woodwork and shoot gasoline or wood alcohol and red pepper into all crevices. Sprinkle burnt alum in all drawers and in bookcases, as the moths eat the bindings off books in some cases. When you relay your carpets and rugs put tar paper under all. Keep careful watch all summer as these moths breed rapidly in warm weather and are almost impossible to get rid of if they get a good start.

By all means, in fair weather. And in bad weather he should always sleep where he gets plenty of fresh air. The old notion that the windows must be kept down

You might make baked bean soup. through a strainer, add as many cups of If you wish a green dining-room, the cooked tomatoes as you have beans, seaimitation leather would, of course, be in son with salt, pepper and butter, boil up

> LETTER BOX. ATT

### How Shall we Read?

As we read the Michigan Farmer we enjoy reading the Practical Science, The Nomid System. The Labor Problem Solved, As on One Man's Farm, and Home Queries. How shall we read? With thought. Stop and think, we must to reason out things. The saying, "All things come to him who waits," I never did reason out, but this saying, "All things come to him who hustles while he waits," I have proven true.

Take, for instance, Practical Science, as the writer tells, compare it with physiilcloth. The bedrooms are easily cared for, ilar writings. See what we can accom-

chrysanthemums the size of cabbages to get sick but practice these proven say-went out when cut out borders came in, ings, not only in eating and drinking but also in dress. In the latest styles in not go well together. Of course, cre- dress one cannot get enough clothes on tonne papers have flowers in them, but to brace against our Michigan winters. Just think, to wear slippers in winter, is never sprawled all over the paper. Pink it reasonable? And our state supports and blue fade, but as all paper does in a tuberculosis hospital. Who for? For time it really makes little difference what those who transgress the laws of practical science.

> There is enough reading to teach all how to prevent, or not contract, tuberculosis and, if you please, many other diseases. Prevention is better than cure any on health write the State Department of Health at Lansing, Mich.-L. F.

### FASHIONS BY MAY MANTON.





# Preserving, a Pleasure with Parowax

Dip top of jars and catsup bottles in melted Parowax. Or pour this pure paraffine directly on top of contents of each jelly glass. Re sult-a perfect, air-tight, mould-proof seal that keeps canned vegetables, catsup, chow-chow, pre-serves and jellies indefinitely.

# No Tins or Tops Needed

It is even simpler than it sounds. It is as cheap as it is easy. No bother with tops that will not fit. Not even paper covers need be used. The direct contact of Parowax with the jelly cannot affect its taste or goodness.

Parowax is tasteless and odorless. It is so thoroughly harmless

that it can be chewed like food or gum.

### Indispensable in the Laundry

Parowax cleans and whitens clothes in the wash. It imparts a beautiful finish to them in the ironing. And Parowax has a hun-dred other household uses. No home should be without it. Your druggist and grocer both keep Parowax. Order it today.

## Mrs. Rorer's **Recipe Book**

Ask your dealer for this valuable free book by this celebrated culi-nary expert. Or send direct to us.

### STANDARD OIL COMPANY, Chicago, Ill. (AN INDIANA CORPORATION



We have exceptional values in USED FURNITURE, for sane and sensible thrifty people who prefer used goods of good quality to shoddy goods, fresh from the factory with the wood still green and smelling of cheap varnish. Rare oppor-tunities to economize in getting the new furnishings you require, with articles that will look better and last longer, below original manufacturing cost. Parlor Suites. Sideboards, Beds, Chairs, Bureaus, Bookcases, Desks. Couches, Tables, Stoves, Ranges, Ice-Boxes, Kitchen Cabinets, Rugs, Carpets, Pianos, Organs, Sewing Machines, Chinaware and Glassware.

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and the baby constantly in an overheated atmosphere is a dangerous one.

Household Editor:-How should lunch-eon table be laid, with a cloth or doilies? --Mary B.

you have a pretty polished table. If the isette table is old or scarred I would use the cloth.

Household Editor:--Would you give a baby soothing syrup or things to quiet it and make it sleep? My mother says she always gave them to us and they didn't kill us.--Young Mother.

Times have changed a great deal since your mother brought you up, and modern thought has changed regarding soothing syrups. It is now known that a healthy infant will not be fretful and wakeful, line and will get all the sleep he really needs. The above patterns will be mailed to If your baby is cross and does not sleep he is not in a normal condition. Instead of the Michigan Farmer on receipt of 10 he is not in a normal condition. Instead cents for each.

Mary B. No. 7651—Fancy waist, 34 to 40 bust. Doilies are preferable for luncheon, if With or without loose panier and chem-

isette. No. 7659—Single-breasted coat, 36 to 46 bust. With cutaway or straight fronts. No. 7272—Semi-princess dress for misses and sma!! women, 14, 16 and 18 years. With three-piece skirt, with revers and high neck or shawl collar and open neck, with long or elbow sleeves. No. 7675—Two-piece skirt for misses and small women, 16 and 18 years. With or without tunic, with high or natural waist line.

or without tunic, with high or natural waist line. No. 7236—Three-piece skirt, 22 to 32 waist. With round or square corners at side-front, with high or natural waist

### **Everything Cleaned And Polished And Guaranteed Absolutely Sanitary**

Tell us what you need and we will send bargain list from which you can make your selection, or send us cash for the price you want to pay and describe fully what you want. We will select the best bargain we have for the money, ship it to you promptly, and will absolutely and fully guarantee that it will in every way

# Please You or Money Back

We buy our goods in Chicago, from people who are leaving the city and don't want to ship their furniture, people who are breaking up housekeeping or moving into smaller homes, and from the mammoth storage warehouses, which have many lots uncalled for. We buy only sound, modern, well-made goods, and clean, polish and put them in perfect order before offering for sale. References: North West State Bank, Chicago. If you need any furniture, investigate our bargains before you buy, save money and be better pleased, for our goods have stood the test of use and good woods improve with age. Address

**PIONEER BARGAIN HOUSE** 

(Dept. 3)

Chicago, Illinois

2102 North Ave.

# a slight narrowing of quotations; in the former they range from 47@67c per bu., while in the latter from 52@68c per bu.

FLOUR AND FEEDS.

GRAINS' AND SEEDS.

Markets.

May 14, 1913

No. 2	No. 1			
Red.	White.	July.	Sept.	
Thursday 1.051/2	1.041/2	91	901/2	a
Friday1.06½	1.051/2	911/4	90 3/4	a
Saturday 1.061/2	1.051/2	911/4	90 3/4	tł
Monday1.071/2	1.061/2	91 3/4	911/4	a
Tuesday1.07	1.06	91	901/2	te
Wednesday1.061/2	1.051/2	901/2	90	a
Chicago (May 13)	No: 2	red v	vheat,	fi
\$1.053/4 @1.063/4; July,	8834C;	Sept.,	881/2C	a
AT: 00 14 6 m. 0.0 14 1				01

Chicago, (May 13).-No. 2 Yeu when \$1.053 (01.06%; July, 88%c; Sept., 88%c; per bu. New York, (May 13).-No. 2 red, \$1.14 f. o. b. afloat; May, 98%c; July, 96%c; Sept., 95%c per bu. **Corn.**-The corn trade has increased in strength with wheat and shows an ad-vance over the closing price of a week ago, fully recovering the decline of that period. Trading would likely have been attended with greater activities were it not for the fact that unusual weather conditions have favored the preparation of the fields for planting and enabled the farmers to rush work more rapidly than usual. It is also anticipated that heavier receipts will be forthcoming soon, due to the fact that farmers' work will be less crowding immediately following corn planting time. The offerings at Detroit are small. One year ago No. 3 corn was quoted here at 80c per bu. Local quota-tions for the past week are: No. 3 Corn. Yellow.

	No. 3	NO. 3
	Corn.	Yellow.
Thursday	56	58
Friday	56	58
Saturday	56	58
Monday		581/3 59
Tuesday		59
Wednesday		
Chicago, (May 13)N	lo. 2 corn,	56½@ 55%C

Chicago, (May 13).-No. 2 Corn, 67%; 57c; No. 2 white, 5914@5914c; July, 55%; Sept., 56%; Dec., 5416c per bu. Oats.-This cereal shows comparatively more strength than either of the other two major grains. Although seeding was completed earlier than usual, dry weather has not allowed growth to go on as rap-idly as would have been the case had more moisture fallen. There apptars also to be an improvement in the demand. One year ago standard oats were selling at Detroit for 60c per bu. Local quota-tions for the past week are: No. 8

			12 600	Standard.	White.
		1.1			
Thursday				381/2	- 371/2
Friday				381/2	371/2
Finday				381/2	371/2
Saturday					
Monday				40	39
Tuesday					39
Wednesda					39
Chicago	(N	Tav	13)1	No. 2 whi	te oats,
993/ a: N	0 3	do	3634	@371/c: st	andard.

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FLUGH AND FREDS.
Flour.-Jobbing lots in ½ paper sacks are selling on the Detroit market per 196 lbs. as follows: Best patent, \$5.70; second, \$5.20; straight, \$5; spring patent, \$5.10; rye flour, \$4.60 per bbl.
Feed.-Detroit jobbing prices in 100-lb. sacks are as follows: Bran, \$21; coarse middlings, \$21, fine middlings, \$27; cracked corn, \$25; coarse corn meal, \$25; coarse corn and oat chop, \$21 per ton.
Hay.-All grades rule steady with last week. Carlots on track at Detroit are: No. 1 timothy, \$14.50@15; No. 2, \$12@13; light mixed, \$13.50@14; No. 1 mixed, \$12@13 per ton.
Chicago.-Timothy grades are higher, while all other kinds contine steady. Choice timothy, \$17@17.50 per ton; No. 1, \$15@16; No. 2 and No. 1 mixed, \$13@14; No. 3 and No. 2 mixed, \$8212; clover, \$7.50@11; alfalfa, choice, \$16@17; do. No. 1, \$14@15; do. No. 2, \$11@13 per ton.
Straw.-Steady. Carlot prices on wheat and oat straw on Detroit market are \$8<.50 per ton, rye straw, \$9@10 per ton.</li>
Chicago.-Rye straw, \$9@10 per ton.
Chicago.-Rye straw, \$9@10 per ton.

### DAIRY AND POULTRY PRODUCTS.

Butter.—Butter values are holding up well, considering the fact that there is still a pretty liberal percentage of us-der-grade product offered. The demand is limited almost wholly to immediate needs, buyers for storage finding fault with both quality and price at present. Detroit jobbing prices rule as follows: Fancy creamery, 28c; firsts, 27c; dairy, 22c; packing stock, 20c per lb. Elgin.—Market firm at 28c. Chicago.—While offerings are liberal and quotations a shade lower on nearly all grades, a firmer feeling is in evidence this week. Home consumption is good and outside buyers are showing more in-terest than in some weeks. Quotations are: Extra creamery, 27½@27¼c; extra firsts, 27c; firsts, 26@26½c; seconds, 24½ @25c; dairy extras, 26c; firsts, 25c; sec-onds, 24c; packing stock, 12@22c as to uality. New York.—Market steady with values

onds, 24c; packing stock, 12@22c as to quality. New York.—Market steady with values holding up well except on packing goods, which are lower. Quotations: Creamery extras, 28½@29c; firsts, 27½@28c; sec-onds, 26@27c; state dairy finest, 28@ 28½c; good to prime, 26½@27½c; com-mon to fair, 25@26c; packing, 21½@23c as to quality.

Eggs.—Good eggs continue strong in all markets, the demand for storage purposes markets, the demand for storage purposes having a tendency to pull prices up a little. On the other hand, the propor-tion of ordinary stock is increasing, caus-ing a widening of quotations and closer attention to candling and grading. In the local market values show another fractional advance, current offerings, candled, being quoted at 19¼c per doz. Chicago.—Demand good for the better qualities, with prices a shade higher, es-pecially on all offerings fit for storing. Ordinary stock rather slow. Miscellan-eous receipts, cases included, are quoted at 16@18c; do., cases returned, 15½@ 17¼c; ordinary firsts, 16¼@17½c; firsts, 18@18½c; storage packed, firsts, 19@19¼c per dozen grades

New higher. New York.—Firm with good grades higher. Fresh gathered extras, 22½@23c; fresh gathered storage packed, firsts, 21 @22c; western gathered, whites, 20@ 201/2 C

Poultry .- Chickens reached a new high

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### THIS IS THE FIRST EDITION.

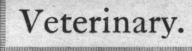
In the first edition the Detroit Live stock markets are reports of last week; all other markets are right up to date. Thursday's Detroit Live Stock markets are given in the last edition. The first edition is mailed Thursday, the last edi-tion Friday morning. The first edition is mailed to those who care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

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THE MICHIGAN FARMER

to Thompson Bros. 11 av 140 at \$9; to Rattkowsky 2 av 120 at \$9, 21 av 130 at \$8,75, 1 weighing 80 at \$7; to Hammond, S. & Co. 19 av 140 at \$9.50, 12 av 135 at \$9; to Burnstine 22 av 145 at \$8.90; to Nagle P. Co. 24 av 140 at \$8.75; to Ham-mond, S. & Co. 14 av 150 at \$9.50, 44 av 135 at \$8.75; to Burnstine 12 av 140 at \$9. Haley & M. sold D. Goose 15 av 140 at \$9.25; to J. Goose 16 av 135 at \$9, 9 av 135 at \$9; to Newton B. Co. 8 av 150 at \$9.25; to Burnstine 6 av 135 at \$9.25; Bennett & S. sold Newton B. Co. 3 av

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

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

<text><text><text><text><text><text><text><text><text><text><text><text><text><text><text><text><text><text><text><text><text><text><text><text><text><text><text><text><text><text><text> OUR NEW YORK IMPROVED FARMS-are great bargains at present low prices. Send for free list, MCBURNEY & CO., 703 Fisher Bidg., Chicago, Ill. 109 Acres all under cultivation, sandy loam, good house and barn, good fences, \$5000. \$2000 down, balance long time. A. E. Oramton, Vassar, Mich.





and sell them as good class; for the re- redress. will secure maximum returns. prices: on the other hand, are determined by local situations, not by national forces. the consumer?

needs to clean house.

goods from nine to 25 per cent. There is

ered and Abuses Prevented?

due the method of assembling and dis- them to the consumers along exactly the tributing farm products, as shown in the same road that the farmer passed. Ade-first of these articles, it is only reason- quate terminal wholesale facilities might able to expect that the commission charg- do away with some of this extra cartage, ed by the wholesale merchant or the although it will also add to it in other profit made by the wholesale jobber respects. should be decreased. There is some evi- The te dence to indicate that there has been a ket would provide a conspicuous place for light diminution in such commissions and producers to send to and an economic profits. But numerous other abuses have stand so that they can sell cheaper, make arisen, none of which need to be enu- it possible for licensed gardeners and merated to farmers. Farmers are already farmers to sell their articles of food, retoo familiar with such practices as re- duce the cost of distribution, provide porting goods to be sold as low grade sanitary conditions for handling food-when they were sold as high grade; re- stuffs, permit segregation of live poultry, porting half the chickens dead when but provide for storage of food in time of five per cent were dead, and the making plenty against a time of scarcity, elimi-nate two classes of middlemen between

lished quotations on goods sold, so that control of the food supply under the pubit appears one or two cents below the lic authority. price at which sales were actually made. This fact was brought out in the recent action of the federal government in im-posing a fine on the market commission of Kansas City. Still another practice is to misrepresent time of a sale. For in- the crops that pay. If interested in Al-stance, if potatoes sell at 35 cents a falfa, Cowpeas, Soy Beans, Dwarf Essex bushel in the morning, and the price Rape, Good Seed Corn, Vetches, Good Seed rises in the afternoon to 38 cents, the Beans, Mangel Wurzel, Turnips, in fact commission man reports sales as occur- any crop that pays to grow, white us and ring in the morning; and pockets the ask for catalogue and prices. Our seeds difference.

There is at hand a means by which of satisfaction. such abuses may be reduced to a minimum. This method has been adopted in Texas, Oregon, Washington and Minne-

T costs more to distribute food prod- sota. Under it the wholesaler must obucts than it costs to raise them. To tain a license from some state authority, put it the other way, the farmer gets filing a bond to the state for the benefit for his produce less than one-half what of consignors. Under the Minnesota law, the consumer pays for it. Just here is the commission merchant must indicate the proper point of attack in the much- the exact minute and hour of the day mooted cost of living problem. So long when the sale was made. This was to as this situation continues, it ill-behooves avoid the abuses as to depressed quotathe city dweller to talk about the ineffi- tions just indicated. Of particular imciency of the farmer. It is the city that portance are the provisions of the Washington law authorizing the Commissioner As given in greater detail in preceding of Horticulture to hear and pass upon any articles, the method of distributing food complaints by farmers; requiring the products that fixes producers' and con- books of such concerns to be kept open sumers' prices is as follows: First, the for inspection by the secretary, who also professional huckster or commissioned has plenary powers of regulation and agent buys from the farmer to sell to the supervision. This law gives to the farmwholesale merchant. He is paid for his er a direct and inexpensive method for wholesale price as possible. At a mini- injured and for securing compensation mum, he increases the total cost of the for such injuries.

Reducing Distributing Costs. By DR. CLYDE L. KING.

There is now before the Pennsylvania then added from one to 20 per cent to the Legislature, a bill providing for the li-cost of the goods in freight to the censing and bonding of persons engaged wholesale terminal. Then the wholesaler in selling agricultural products on comdeducts from five to 10 per cent for sell- mission. If payment for agricultural proing to the retailer, thereby adding on the ducts consigned to such merchants shall average around 11 per cent to the job- not be made within 30 days after the reber's price. Then, for handling the goods ceipt of same, the farmer may enter suit and selling them to the consumer, the in any court for the recovery of sums retailer charges from 30 to 100 per cent due him. This act is good, so far as it increase of the wholesaler's price, on an goes, but it does not go far enough. It average 45 per cent. In addition, there protects the farmer from absconding or is frequently, between the wholesaler and defaulting wholesale merchants. It also the retailer, at least one jobber, and of- protects the good name and business of ten two. There is a natural tendency for the reliable commission man. It is spethe jobber to pay as little as he can; for cifically weak, however, in that the farm the wholesaler to buy goods as low class er must first go before a court to secure This method of redress is too tailer to boost prices up to where they costly. The course is open to the farmer The only additional advantages now. A city store-man recently said to me, that the law gives is the bond, so that 'Why spend time or thought about what the farmer may have something to levy the farmer can get for his produce? He is upon in case the commission merchant just like the rest of us. He is out for all does not have sufficient property in his he can get." To be sure he is. However, own name. The act is also inadequate there is this significant difference .be- because it does not give the Secretary of tween the farmer's ability to boost his Agriculture power to inspect the books. prices and the retailer's and the commis- That is, the machinery for redress is so sion merchant's power to manipulate cumbersome and expensive that the small The forces fixing the farmer's farmers usually can not afford to go price are nation-wide in operation, and through the process. It might just as hence a single farmer, or, indeed, all of well have been made an administrative the farmers of a given state, can have matter, and the Secretary of Agriculture comparatively little effect upon that price, given adequate power in the premises. But the wholesaler's misrepresentations, Such laws elsewhere have met the approvthe prices paid by the retailer, the al not only of the farmers but also of re-amount of food held back or destroyed, liable commission men as well.

Another remedy is to put terminal wholesale markets under the ownership Can this method of distribution be and control of the municipality. The simplified, and can distributed costs be New York Market Commission is advo-lowered? This question can be most cating a wholesale terminal municipal thoroughly answered by resolving it into market for New York City. It believes three questions: (1) Can the wholesaler's that such a market will save cartage excommission be lowered, and wholesale penses; for there, as in Philadelphia, abuses prevented? (2) Can the retailer's large quantities of food supplies are carprofits be reduced and their abuses abat- ried past their point of destination to a ed? (3) To what extent and how can the distributing center and then back again. middleman be eliminated so that the pro- In Philadelphia, the farmer who comes ducer may sell as direct as possible to to the city to dispose of his products at Vine or Dock Street wharf, drives 10 I. Can Wholesaler's Commission be Low- miles through the heart of the city. His goods are then purchased by a vendor Through the elimination of the risks who drives back the ten miles and sells

The terminal wholesale municipal mar-Another practice is to lower the pub- the producer and consumer, and put the (Continued next week).

### PAYING CROPS ON THE FARM.

The success of the farm depends upon are well known, and always give the best Address

ALFRED J. BROWN SEED CO. Grand Rapids, Mich. Mention the Michigan Farmer .-- (Adv.)

MINERAL In use HEAVE years REMEDY

### NATIONAL CROP REPORT.

The Crop Reporting Board of the Bu-reau of Statistics of the United States Department of Agriculture estimates, from the reports of correspondents and agents of the Bureau, as follows: On May 1 the area of winter wheat to be harvested was about 30,338,000 acres, or 4.5 per cent (1,449,000 acres) less than the area planted last autumn, but 16.4 per cent (4,367,000 acres) more than the area harvested last year, viz., 26,571,000 acres.

acres. The average condition of winter wheat on May 1 was 91.9, compared with 91.6 on April 1, 79.7 on May 1, 1912, and 85.6 the average for the past ten years on May 1, 1912, and 85.6

on April 1, 79.7 on May 1, 1912, and 85.6 the average for the past ten years on May 1. A condition of 91.9 per cent on May 1 is indicative of a yield per acre of ap-proximately 16.6 bushels, assuming aver-age variations to prevail thereafter. On the estimated area to be harvested, 16.6 bushels per acre would produce 513,571,-000 bushels, or 28.4 per cent more than in 1911, 19.3 per cent more than in 1910. The out-turn of the crop will probably be above or below the figures given above according as the change in conditions from May 1 to harvest is above or below the average condition of rye on May 1 was 91.0, compared with 89.3 on April 1, 87.5 on May 1, 1912, and 89.6, the aver-age for the past ten years on May 1. The average condition of meadow (hay) lands on May 1 of 88.5. Stocks of hay on farms May 1 are es-timated as 10.828,000 tons (14.9 per cent of crop), against 4.744,000 tons (8.6 per cent) on May 1, 1912, and 8,673,000 tons (12.6 per cent) on May 1, 1911. The average condition of pastures on May 1 was 87.1, compared with 81.7 on May 1, 1912, and a ten-year average on May

### MICHIGAN CROP REPORT.

MICHIGAN CROP REPORT. • Wheat.—The condition of wheat is 83 in the state, 84 in the southern counties, 81 in the central counties, 85 in the north-ern counties and 87 in the upper penin-sula. The condition on April 1 was 82 in the state, 83 in the southern counties, 79 in the central counties, 80 in the north-ern counties and 94 in the upper penin-sula. The per cent of wheat that will be plowed up because winter killed or oth-erwise destroyed is 4 in the state, south-ern and northern counties, 7 in the cen-tral counties and 1 in the upper penin-sula. The damage by Hessian fly, in per cent is 5 in the state, 9 in the south-ern counties. In the the south-ern counties. • Wing to the light yield and inferior quality of Michigan wheat for the year fly2, the grain suitable for milling and hipping is practically all marketed; con-sequently I think it unnecesary to ask for any more reports relative to wheat marketed by farmers until the month of august next, when the 1913 crop will be in sale. — Re.—The average condition of rye in

the

for any more reports relative to wheat marketed by farmers until the month of August next, when the 1913 crop will be on sale. Rye.—The average condition of rye in the state is \$7, in the southern counties \$8, in the central and northern counties \$8 and in the upper peninsula 94. The condition one year ago was \$1 in the state, 77 in the southern counties, 80 in the central counties, 88 in the northern counties and 96 in the upper peninsula. Meadows and Clover.—The condition of meadows and pasture in the state and southern counties is \$9, in the central counties \$5, in the northern counties \$8 and in the upper peninsula 95. The acreage of clover sown as com-pared with last year is 94 per cent in the state, 96 in the southern counties, 92 in the central counties, 95 in the northern counties and 93 in the upper peninsula. The acreage of clover that will be plowed up because winter-killed or otherwise de-stroyed is 10 per cent in the state, 9 in the southern counties, 13 in the central counties, 8 in the northern counties and 3 in the upper ptinisula. Oats.—The acreage sown, or that will be sown, as compared with last year is 99 in the state, 98 in the southern and northern counties, 100 in the central coun-ties and 105 in the upper peninsula. The greate with 1912, is 93 in the state, southern and central counties, 91 in the north-ern and central counties, 91 in the north-ern counties and 94 in the upper penin-sula. The per cent of lambs.—The per cent of spring pigs saved as compared with 1912, is 89 in the state, 88 in the south-ern and central counties, 91 in the state, southern and central counties, 926.55 in the central counties, \$26.59 in the north-ern counties and 93 in the upper pe-insula. The average wages by the day without board is \$1.68 in the upper pe-

ern counties and \$30.68 in the upper pe-ninsula. The average wages by the day without board is \$1.68 in the state, \$1.75 in the southern counties, \$1.58 in the central counties, \$1.57 in the northern counties and \$1.85 in the upper peninsula. The average wages in the state last year, by the month with board was \$26.48 and the average wages by the day with-out board was \$1.59. In 1904, ten years ago, the average wages in the state by the month was \$22.20 and the average wages by the day without board was \$1.34. Truit.—Reports from all sections of the state indicate a decided increase in the prospect of the various kinds of fruit over the 1912 report.





Dairy Shorthorns-Large Cattle-Heavy Milkers, No stock for sale at present. W. W. KNAPP, R. No. 4, Watervliet, Mich. Dairy Bred Shorthorns -No stock Scotch Shorthorn Bulls and Heifers For Sale. W. W. KNAPP, Howell, Michigan. SHEEP. "BREED UP YOUR SHEEP" Articlesent free to any address, "The Sheep Man of the East." PARSONS, R. No. 1, Grand Ledge, Mich. REGISTERED HAMPSHIRES \$50 1 fine Ram, 3 Ewes & 3 Lambs, all for \$50 C. D. WOODBURY, Lansing, Mich. Reg. Ramobuillet Sheep, Pure Bred Poland China HOGS and PERCHERON HORSES. 2% miles E. Morrice, on G. T. R. R. and M. U. R. J.Q. A. 000K. Shropshires for Sale A choice registered flock of forty head. Address LONG BEACH FARM, Augusta, Mich, SHROPSHIRES & DUROCS KOPE-KON FARM, Kinderhook, Michigan, HOOS. Durocs & Victorias A Desirable Bunch of Sows of Either Breed due April and May, M. T. Story, B. R. 48 Lowell, Mich. City Phone 55. BERKSHIRES Choice spring boars and gilts. priced to move quick. Farmers stock. ELMHURST STOCK FARM, Almont, Mich, Quick Maturing Berkshires -Best breeding; best type. or money refunded. C. S. BARTLETT, Pontiac, Mich. 0. I. C. -Big growthy type. last fall gilts and this spring facrow to offer. Very good stock. Scott No. 1 head of herd. Farm ½ mile west of depot, OTTO B. SCHULZE, Nashville, Mich. O. I. C. -Serviceable boars all sold. Sows GEO. P. ANDREWS, Dansville, Ingham Co., Mich. O. I. C. SWINE Write me for price on Spring of service males of good type. Write me describing of your wasts. A. J. GORDEN. R. No. 2 Dorr. Mich. CHESTER WHITES-SONS AND TERS of CHAMPIONS and GRNAD CHAMP-IONS. Spring pigs now weaned and ready for ship-ment. BONNIE BRAE FARM, Algonac, Michigan. THIS 5 Sow weighed 932 LBS. AT 23 MONTHS OLD IONIA GIRL I have started more breeders on the road to success than any man living. I have the largest and fin-est herd in the U.S. Every one an early developer, ready for the market at six months old. I want to place one hog in each community to advertise my herd. Write for my plan. "How to Make Money from Hogs." G. S. BENJAMIN, R.No. 10 Pertiand, Mich. . I. C's-all sold. Orders booked for April C. J. THOMPSON. Rockford, Michigan I. C's.-All sold, will book orders for ALBERT NEWMAN, Marlette, Michigan O. I. C'S Bred sows, March pigs pairs and tries. Buff Rock Eggs \$160 per 15, FRED NICKEL R. 1, Monroe, Michigan. **0. I. C'S** -All ages, growthy and large. Males on young stock. H. H. JUMP, Munith, Mich. DUROC-JERSEYS-Fall and Spring boars from prize-winning strains. Sows all ages. SPECIAL BARGAIN in summer pigs. Brookwater Farm, R. F. D. No. 7, Ann Arbor, Mich. DUROC JERSEYS-Fall Gilts bred or open Spring pigs pairs not akin F. J. DRODT, R. No. 1, Monroe, Michigan MALES ALL SOLD BUT ONE<sup>-Fancy</sup> fall gilts for sale. Station A, Bay City, Mich. Boute 4, Box 81. DUROOS BRED SOWS all sold. Service Boars \$40 hto \$50. January pigs \$12 to \$15, either sox. Satisfac-tion guaranteed. F. B. Cook, Route 2, Stanwood, Mich. DUROC JERSEYS—BRED GILTS FOR SALE. CAREY U. EDMONDS, Hastings, Michigan. DUROC JERSEY GILTS Bred for July and August farrow. Write for prices. I pay the express. J. H. BANGHART, Lansing, Mich. For Sale Essex pigs, 6 to 9 weeks old, from Michigan's oldest herd. Save money by buying while young. Send for catalog and low prices. E. P. OLIVER, 804 Oak St. Flint, Mich. POLAND CHINAS-Both Western and Home Bred. Either sex, all ages, Prices right. W, J. HAGELSHAW, Augusta, Mich. **Butler's Big Bone Poland Chinas** We have a few nice fall boars, also some big sows bred for fall farrow. Our hogs are all cholera proof. J. C. BUTLER, Portland, Michig Big Type Poland China Pigs at close prices. Eggs Rocks, \$1 per 15. ROBERT NEVE, Pierson, Mich. Large Type P. C. -Largest in Michigan. Bred gilts and Oct. pigs that have size, bone and quality. Write your wants or come and see. Expenses paid if not as re-presented. Free livery. W.E. Livingston, Parma, Mich. POLAND CHINAS-Either sex, all ages, Some-thing good at a low price. P. D. LONG, R. No. 8, Grand Rapids, Michigan. P. C. BOARS AND SOWS-large type, sired A. A. WOOD & SON, Saline, Michigan. LARGE Yorkshires-Choice breeding stock, all ages, not akin, from State Fair prize-winners. Pedi-grees furnished. W. C. COOK, R. 42 Box 22, Ada, M ch. **Lillie Farmstead YORKSHIRES** Spring bred gilts all sold. Gilts bred for next August farrow. September pigs either sex, pairs and trios not akin. Orders booked for spring pigs. COLON C. LILLIE, Coopersville. Mich.

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# Practical Science.

### OLIVE OIL.

BY FLOYD W. ROBISON. So far as the purity of the product is described in text books is concerned, in concerned, olive oil is second in import- reality requires a considerable degree of ance only to butter. We believe that skill, especially in interpreting the re-probably of the edible fats, butter-fat has sults. After the arachidic acid has been been subjected more to adulteration than isolated, the analyst should determine has any other. Without doubt, however, very carefully the exact melting point of olive oil has been nearly as widely adul- the crystals before he should presume in terated as has butter. Like pure butter- any instance to pass judgment on the fat, pure olive oil enjoyed a very distinct, same. A very desirable way of analyzing wholesome reputation. For a great many olive oil is to carry along in each inyears it has been almost the sole vege- stance, under exactly the same conditions table oil extensively used for edible pur- with the analysis, a sample of olive oil poses wherein the characteristic flavor of known purity. In this way, the alalyst and properties of the oil have been items is much less apt to pass snap judgment

article of commerce, and with the in- are sessame oil, rape seed oil, corn oil, creasing use of salads and the like, the cocoanut oil and certain animal oils, such demand for high grade olive oil has been as lard oil. rapidly and steadily increasing. There is The Liking for Olive Oil May Easily be also a very distinct difference among the different grades of olive oil, and one is apt to become prejudiced against the product if he does not come in contact with a diet correctant, and because of its the very best grade. We believe that pleasant and agreeable taste, it can be much of the adulteration of clive oil has taken very regularly and one soon acbeen possible just because of a lack of quires a liking for it. To those who have general familiarity with the qualities of tried without success, the taking of olive the best product. Standards.

by the United States Pharmacopoeia and be much easier to acquire the habit for the Food and Drugs Act, do not distin- olive oil. One may judge by the color guish between the different grades of and fluidity very closely regarding the olive oil. Naturally this must be so, be- purity of the oil. It should be light green cause these standards are concerned in color, and very fluid without being merely with the question of purity, and viscid. On salads, such as lettuce and not with the question of excellency. The tomatoes, with pure aromatic cider or requirements of the United States Phar- malt vinegar, and with pure spices, there macopoeia are as follows:

Specific gravity at 77 degrees F., should dish. be between 0.910 and 0.915. Iodine value not less than 80 nor more than 88. Saponification value from 191 to 195. Readily soluble in ether, chloroform and carbon disulphide. Very slightly soluble in

### Source of Olive Oil.

sound, mature fruit of the cultivated olive New York city. They have recently retree. It should be free from any ran- ported a study of 252 tuberculous chilis known as virgin olive oil, and is taken studied individually. Of these 252, there from the first pressing of the carefully were 201 due to bacilli of the human type selected fruit. The oil is suspended in and 51 to the so-called bovine type of the fruit in a watery fluid and exists in the tubercle germ; or about 20 per cent the fruit to the extent of about 50 per due to the bovine type. They have also cent. The lowest grade of oil is obtained completed a study of 1,511 cases of tufrom the olive pits or stones, sometimes berculosis of all ages, the list including obtained through pressure, times by the use of suitable solvents, number there were 368 cases among chilsuch as gasoline or carbon disulphide. grades of olive oil that are most subject the human type, and 76 to the so-called to adulteration. There is no vegetable bovine type of tubercle germs. If we oil with which we are familiar that ap- accept the view that the germ from the proaches the delightful flavor of the pure human and the germ from the bovine virgin olive oil. It is popularly supposed are merely different varieties of the same that the best grades of the oil are yellow germ, then, of course, human tuberculosis in color. This is not true. The very and bovine tuberculosis become identi-purest virgin olive oil has a very light cal. If, on the other hand, we hold to green color and its consistency is quite the view that there are two distinct watery and free from the thick viscous types, then at the same time we must nature of the lower and yellower and concede that the human being is sus-

### Cottonseed Oil an Adulterant.

been until very recently, cottonseed oil, that germ. and we understand that it has been the practice to ship abroad from this country valence of human and bovine tubercle cottonseed oil, which was then refined in germs in bone and joint tuberculosis of Italy and Spain and returned to this children, there are included 70 patients. country either labeled as olive oil, or each one studied critically. All were mixed as an adulterant with olive oil. children under 12 years of age except The passing of the National Food and three. Of the 70 cases of bone and joint Drug Act has almost entirely done away tuberculosis, the bovine variety of the with this practice, as the government in spectors at the ports of entry have made human in 26. Both varieties were found it very impractical for importers to han- in three cases. Where there were hisdle this sophisticated article. Cottonseed tories of tuberculosis in the families, 71 oil is quite readily detected in the lab- per cent of the cases were due to the oratory, and when it became inexpedient human type. Where there was no family to adulterate olive oil with cottonsed oil, history, only 17 per cent were due to the various other vegetable oils began to be human type, and about 82 per cent to introduced into the product, the principal germs of the so-called bovine type.

### Peanut Oil is Now Used as an Adulterant.

Peanut oil is a very clever adulterant in fecting experimental animals. The other connection with the product. The prin- seven cows give milk that does not at cipal means of detecting it is by deter- the time seem capable of causing such mining the amount of arachidic acid pres- infection. There is no means, practical ent in the oil. Here again, some gross on a large scale, for detecting the cow and serious errors have been made in the that gives dangerous milk. Cows with laboratory in determining the presence tubercular udders practically all give virof arachidic acid, and as a consequence, ulent milk .- Minn. Ex. Bulletin No. 32.

reporting the oil as adulterated with peanut oil. The best for arachidic acid, while quite simple in so far as the technique on the sample.

Olive oil, when pure, is a very choice Among other \*adulterants of olive oil

### Acquired if One Selects the Best Grade.

Olive oil is being used quite largely as oil, we sugest that if they secure this oil to corespond with the general character-The standards which have been adopted istics we have mentioned herein, it will is scarcely a more agreeable or palatable

### TUBERCULOSIS.

Some of the best work that has been done by those studying the relation of bovine to human tuberculosis is from Dr. Park and his associates. Dr. Park is connected with the Research Laboratory Olive oil is the oil obtained from the of the Department of Public Health of Commercially, the best olive oil dren under five years of age, each case and some- 478 cases of their own. Of this total dren under five years of age; and of As stated above, it is usually the lower these 368 cases 292 were due to germs of ceptible to the bovine type, and that about 20 per cent of tuberculosis in chil-The chief adulterant of olive oil has dren under five years of age is due to

On a recent report on the relative pregerm present in 41 cases and the

Statistics on a large average show that about two tuberculin reacting cows out of nine give virulent milk, capable of in-

THE MICHIGAN FARMER

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# EXTENDING GRANGE USEFULNESS.

tion and deliberate action on the subject. At best the whole matter is in a hazy state, so new that as yet it has taken no form that universally prevails.



CLUB DISCUSSIONS.

<text><text><text><text><text><text> his home. Would wear clean clothes about farm work, would not work hard for 30 years and spend the first bank account for an automobile. Mrs. C. Gor-don thought it advisable to pay hired man weekly or monthly, that he might have money to use when he wanted it without asking for it. Co-operation

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



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