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FARM NOTES.

Grasses to Seed for Pasture.

Grasses to Seed for Pasture.

In seeding land with a view to getting both pasturage and hay, and also to restore the fertility of the soil, would you advise mixing some alsike with the June (red) clover and timothy? If so, what proportion of these seeds would you use and what amount per acre? Does alsike mature as early as the June clover? The field will be used more for pasture than hay. It is well drained but only a trifle above a bordering marsh. Soil a mellow clay loam. Would alfalfa do well?

Ingham Co.

Subscriber.

Under these conditions it would certainly be a good plan to sow alsike with June clover and timothy for either pasture or hay but especially for pasture, as a larger amount and better quality of pasture can be secured from a mixture of grasses, than where but one or two are sown alone, and the alsike will prove more enduring than the red clover. writer makes a practice of sowing about four quarts of red clover and one quart of alsike with two or three quarts of timothy per acre. In seeding down a permanent pasture probably more alsike should be used, and the pasture would be bettered by the use of some red top and perhaps some brome grass on this low lying, but well drained soil. The alsike will reach maturity at about the same time as the June clover, and the other grasses mentioned will also be at about the right stage to cut with the clovers if used for hay. The ground would not be so well suited to alfalfa as to the grasses mentioned since alfalfa needs a considerable depth of dry soil to thrive

Lime and its Application to the Soil.

will some of your correspondents please tell me through your paper if air-slaked lime would be a good fertilizer to put on fall wheat in the spring? If not, what would be a good fertilizer?

Mason Co.

I. H. W.

While on some soils a noticeable bene-

apply lime for best results. The liming of soils has not been practiced in this country to the extent which has prevailed in European countries, but the benefits to be derived from liming a good many of our soils are being demonstrated from year to year and the use of becoming more common. There seems to some difference in opinion as to the form in which lime should be applied to the soil, some advocating ground lime-stone, or carbonate of lime, while others favor hydrated lime or ground stone lime; either of these products have a caustic effect upon the soil and more beneficial than other kinds. Air-slaked lime should be applied in larger quantities than either of the above mentioned products, but not as much of it will be required as of the ground limestone. The writer contemplates a pplying writer about one ton per acre to ground intended for alfalfa this spring and will also try it on other crops leaving a check plot in each field for purposes of comparison. Probably the greatest benefit derived

A FEW LEADING ARTICLES OF THE WEEK.

Breeding Pure-bred Swine,-The first of a series of articles on this subject, now of more than usual interest owing to the high price of pork......301 Improving the Corn Crop.—The low fertility of our soils, as well as poor cultural methods, is responsible for our low average yield of corn.. Horseradish Culture.—An enterprise comparatively little known, is described as a promising one for this climate by Mr. Morse326 Entertaining at Easter .- An illustrated article suggestive of many novelties The Cream Separator and the Small Dairyman.—An experience that points to the economy of the centrifugal separator Wayne's Triumph at Fallen Timbers.—The decisive battle which opened the Must the Turkey Flock be Isolated?-Latest information concerning blackhead, a disease which threatens the future of turkey growing322

the soil better adapted for the multipli- under their local conditions. cation of beneficial soil bacteria by giving it an alkaline re-action. Lime is also an essential ingredient of plants but it is generally considered that there is enough lime in our soils to supply this need. However, it is a fact sufficiently well established that beneficial results are secured from its application in at least a large proportion of cases especially where leguminous crops, or root crops are planted. But the best method of applying it is to sow it on the ground after plowing and harrow it in, mixing it with the soil, although the the clover seeded in the wheat it an alkaline re-action. Lime is also an though the the clover seeded in the wheat gested. However, lime is simply a soil corrector and not a fertilizer, and is not more than medicine is needed by all peo. Lime will be used more extensively in Michigan during the coming season

from the application of lime is in making speak in the light of actual results secured

Seeding Alfalfa.

It is impossible to tell where one has might be materially benefited by moderate not previously experimented in the grow-application on fall sown wheat as sug- ing of alfalfa whether inoculation is necof air-slaked lime in the spring on fall use after these trials have been com- where this is impracticable, it is undoubt-

with the pure culture as suggested, and a good many growers have secured good results by this plan. It should be done, just before the seed is sown and care should be taken not to expose the seed to the direct rays of the sun after it is inoculated, and before it is sown. Thus, if it is sown broadcast, the ground should be harrowed to cover the seed at once, particularly if it is sown on a bright day.

While it is possible that the roots of alfalfa might fill the drain tile so as to interfere with it two feet below the surface of the soil, yet it is not probable, and those who have grown it upon tile-drained ground have not found the difficulty from this source that some anticipate. There is not much, if any danger, of this result, and none should be deterred from sowing alfalfa on this account. The writer has seen alfalfa growing for several seasons on tile-drained soils, and the drains are still working perfectly.

Painting the Farm Buildings.

Painting the Farm Buildings.

I was intending to paint all of my buildings this spring, but find that the price of oil and paint is so extremely high that I would like to have you advise me, through the Michigan Farmer, how to use buttermilk, or some other substitute instead of oil, and what they put with it to give it a gloss.

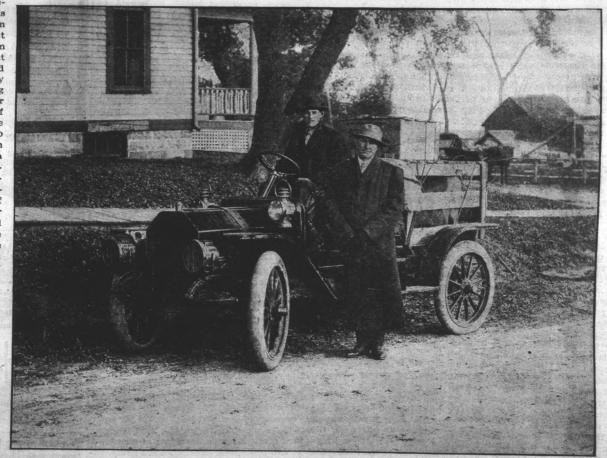
Cass Co.

There is

There is no question about the profit in keeping all buildings thoroughly painted, but while painting with poor materials is possibly better than not painting at all. yet by far the greatest profit will be derived by using only good materials in painting farm buildings. Really, the cost essary or not. On some Michigan soils of the good paint is only a minor item it does not seem to be necessary, as good in the keeping of buildings well painted, needed by all soils and for all crops any stands have been secured from the start the cost of the labor required to apply it without inoculation, which is proof that being the larger factor, so that where the bacteria was present in the soil, as home labor is used to apply it, the greater without it it is impossible to secure and expense in painting is eliminated. In any than ever before and we shall doubtless be keep a good stand of alfalfa. Inoculation event, one can not afford to use any but in a position to give our readers more with soil from a successful alfalfa field the best paint on account of the time respecific information with regard to the is generally considered the best means quired to apply it, and the resulting cost fit might be derived from the application results which may be expected from its of securing these necessary bacteria, but, of the application, since the good paint will last much longer and applications will of air-slaked lime in the spring on tan decent class have been come and applications will sown wheat, yet this is not the place to pleted, when those who have tried it can edly a good plan to inoculate the seed not need to be so frequent as where the

poorer grades of paint are used. The substitutes for paint, such as pigments mixed with buttermilk as mentioned in this inquiry, may give a good appearance to the job for a time, but will not preserve the wood as will paints mixed with linseed oil, which not only gives the paint a bright and glossy appearance, but acts as a preservative of the wood by keeping out the moisture and the germs which cause decay.

Where one has rough buildings to paint, the following method is advised by a practical painter as a means of giving a better appearance to the job when finished, and of reducing the quantity of paint which would be required. This method is to apply a priming coat prepared as follows: To one gallon of prepared paint add two gallons of soft soap, one gallon of raw linseed oil and two pints of dryer. If the soap is very thick, thin with a little water before using Allow this priming coat to dry thoroughly, then proceed with the work as with a new building. Notwithstanding the fact that linseed oil is now very high, sub-



Theodore Buchanan, an Iowa Farmer, returning from a 28-mile Trip after Two Hogs and 17 Pigs, a Load of 700 Ibs., Showing the Use Farmers are Making of Autos.

making of paint for the purpose of painting the farm buildings, and only the best of pigments should be used with it. Prepared paints are convenient, and where the painting is done by home labor, are generally preferred to paint that requires mixing, but where these are used only brands of known reliability should be purchased, since they will wear much better and give much better protection to the wood as well as a much better appearance to the job than will the poorer and cheaper kinds. Too many farmers neglect the regular painting of their farm buildings on account of the cost, yet from no standpoint does it pay to neglect this important work. The serviceable life and good appearance of the buildings is perpetuated thereby, and the value of the farm as well as the enjoyment of the home is proportionately increased.

I have a four-acre lot which I would like to divide in two lots for hog pasture. The soil was never plowed and dries up in July. I would sow one lot in alfalfa this spring and the other next spring. Would you advise me to mix the alfalfa with clover, for I can not get any soil which contains alfalfa bacteria?

Mason Co.

Subscription

Under these conditions, it would undoubtedly be a good plan to sow a little clover and perhaps some alsike with the alfalfa for hog pasture, since if the bacteria is not present in the soil, the clovers will make a good stand and the alfalfa will gradually develop the nodules from natural inoculation so that the next time it is seeded the alfalfa will grow successfully. Then it is not at all certain that the pasture would not be improved by this mixture of clovers. Alfalfa seems to grow well with other grasses when once established and while it is in a class by itself for hog pasture, the other clovers are undoubtedly good, and the hogs will appreciate the variety and probably get a larger amount of feed from the mixture than they would secure from the alfalfa alone.

Oats After Timothy.

Would there be any chance of getting a fair crop of oats on a piece of timothy sod I plowed last fall, and at the same time seeding it to clover? It is heavy soil. I just bought the farm last fall and it has not had much clover seeding. I want to get it seeded as soon as possible. Wayne Co.

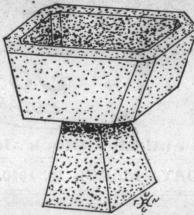
On general principles it would not be a good plan to sow oats on a timothy sod. Theoretically, at least, the chances of getting a good crop of oats would not be good for the reason that most of the available plant food in this soil has been stored up in the roots and crowns of the timothy plant for the production of a crop of grass next year, and as the oat crop is one which matures in a short season, this stored up fertility would not be available for its use to any considerable extent. It is true that fertility is all the time being made available by natural processes. But for the reason given above, the oat crop could not make the same use of the fertility stored in this soil under average conditions as would a corn crop or any other cultivated crop with a long season, since the cultivation would help to make this latent plant food in the soil available and the longer growing season would give an opportunity for the timothy sod plowed down last fall to decomthus making the stored up fertility which it contains, available for the grow-However, in a case like the ing crop. one cited where it is desired to get land seeded at once, the practice might be permissible.

A CONCRETE PLANT URN.

This plant urn or box may be easily upon the lawn.

plank, bottom side up and the four sides of outside form erected around same; checked growth to so great an extent. these are cut so to fit together with the with an allowance of two inches for the saving clear seed. concrete to be placed between the forms,

The base or pedestal is molded from a square form that is hinged together in the above manner, and which is cut so 1,000 pounds of a complete commercial



as illustrated. The bowl of urn is placed upon pedestal as shown, hus enabling it to be easily removed for cleaning at any

Wayne Co

A. A. HOUGHTON.

BENEFITS DERIVED FROM OTSEGO COUNTY ASSOCIATION.

Notwithstanding the discouragements mentioned in the last issue, there have Otsego County Potato and Clover Growers' Association, some of which may be enumerated as follows:

Some of us have met at least seven is a distinct acquisition.

Some of us have begun to think about our business in a way that we would not before have thought possible.

The writer grew, for experimental purposes, sixteen varieties of potatoes for the All whom we can enlist will learn more Department of Agriculture, and has more faith than ever in the Rural New Yorker No. 2, and the Sir Walter Raleigh, for Otsego county.

The writer is growing a measured acre of hairy vetch with fall rye to test it as a soil renovator.

From the Department at Washington, and the Wisconsin experiment station, five bulletins bearing on potato production and other phases of northern farming have been sent to seventy-five or eighty men in Otsego county.

Though scarcely a farmer responded to the urgent request voiced on 300 postal cards to bring to the meeting his wife, who is a farmer, and his boys and girls whom he ought to wish to train to be better farmers, a large number of stu-dents from the Gaylord High School were excused from classes, and witnessed and participated in the demonstration of the Babcock test, and attended some of the lectures.

The students of the County Normal, which is training teachers exclusively for rural schools, with their two critic teachers, assisted Professors Smith and Mc-Dowell in measuring an exact acre, in preparing the hundred pounds of nitrate of soda, and in applying it last spring; they also attended the sessions of our meeting this winter, thus doing something through good agencies to hasten movement of "back to the soil."

The County Normal now uses the government bulletins in its term's work in

The stop of the Farmers' Institute train at Gaylord was very widely advertised and attended by crowds through the influence of the association.

As a result of the association and the made of concrete by anyone and will be interest aroused through the meeting an ornament as well as of practical use held and addressed last spring by Prof. C. Beman Smith, and his subsequent arti-The bowl or box is easily moulded by cles in the county papers, the potato cropbuilding a core of the size desired. This of Otsego county was never before plantis made in a box form and with the four ed so early, nor looked so thrifty and sides slanting; the nails at corners are green in a long run of dry weather; and, driven into an upright so as to permit despite the months without rain in the each corner to be beveled, as shown in area around Gaylord, there would have drawing. The core is placed upon a been a fair crop as a result of better methods had not the frost of August 20

Considerable publicity has been given same slant in proportion to the core and to the idea of breeding up seed, and of

The sum of \$45 being generously adfor the walls of bowl. At each corner of vanced by a member of the association, the outside from a triangular strip is Mr. Fred Stafford, of Elmira, we raised placed, which is nailed to one side board a sample acre of potatoes on the fair FREE SCHOLARSHIPS FOR EVERYBODY only, yet so to fit closely into the corner ground, in the outskirts of Gaylord, inof form; this permits the outside form tending to have the experiment as an Directors of Franklin Institute, today voted to be hinged together at three corners object lesson to be seen at fair time, the to prepare candidates for the next Railway and the fourth corner fastened with hook potatoes to be dug then with digging ma- Mail Clerk Examinations free of charge. A

stitutes should not be used for it in the thus making the molding of work very secure more than a limited amount, say five bushels, that the clear seed might

be used on the greatest number of farms Besides the \$45, Mr. Stafford furnished that the sides of pedestal will be slanting, fertilizer, and the seed, Rural, Potentate, and Late Petoskey, all clear.

All labor was hired. Because of the great demand for teams, our crop was planted very late, but not later than has been the common practice over large areas heretofore, on otherwise ideally fitted ground. The crop was well taken care of, including spraying for blight. The yield was small and cost us a prohibitive price per bushel. We will have some clear seed and the valuable experience that late spring plowing on old land is wrong, and that we failed on account of failing to conserve moisture by not plowing in the fall of 1908, and by not working the ground early and frequently in the spring of 1909.

We are satisfied that humus will help hold moisture in the soil, and that a commercial fertilizer can not do its best in a soil lacking in humus, and that an old timothy sod plowed under for potatoes late in the spring, too largely the Otsego county practice, is but a weak, poor substitute for a second growth of clover plowed under in the early fall before the crop is planted.

So, out of our misery and our many mistakes there may come to the open mind many blessings.

We have on foot a campaign to place been good results from the work of the one of our printed creeds in every store, postoffice, grange hall, bank, school house, in the county, and to hand one to each school child.

We made a mistake in not fixing the good men "from outside," to know whom membership fee at one dollar instead of twenty-five cents, as the latter rate does not give us the necessary funds to operate with.

> Those working in this organization give all their services in a missionary spirit. thoroughly the lesson of unselfishness, and that a few must strive in setting any new cause on its feet, that all may gain In this spirit the heroes of the Revolution risked all without promise of gain for themselves.

Otsego Co.

R. D. BAILEY.

THE MANURE SPREADER FOR THE SMALL FARMER.

For some years the manure spreader has been recognized as not only a useful but a necessary implement in the equipment of the large farm. But the small farmer has generally hesitated to purchase a manure spreader because he has felt that he would not have sufficient use for it to make it a profitable investment in the equipment of a small farm. This, however, we believe to be a mistaken idea as a little careful figuring will show The farmer for instance, who only has say 100 loads of stable manure each year, will be able to cover only five or six acres hand spreading, while he would be able to cover at least twice that area by using the manure spreader with a much larger net result in the increased yield of the succeeding crop, which in many cases might in itself be sufficient to nearly or quite pay the cost of a manure spreader in a single season for just this limited Then there is the saving of time which is an important factor of every farm in present day labor conditions which would easily pay the interest on the investment to say nothing of the saving in hard labor which this saving of time implies. Unquestionably the small farmer can well afford to own a manure spreader and will find it a profitable investment. These implements have been perfected to a high degree and their durability has been demonstrated so that when once the investment is made, it will not have to be duplicated for many years upon the small farm, where the manure spreader is kent und large part of the year when it is not in use. This is the season of the year when the average farmer will be considering the advisability of purchasing a manure spreader and it is the writer's opinion that if he decides a question in the affirmative, that his decision will be a matter for future self congratulation rather than of regret from whatever standpoint it may be viewed.

Rochester, N. Y., March 2, 1910.-The and eyelet, so the outside form can be chines on exhibition, and then be sold postal, containing the applicant's name, ad-

WHAT'S THE USE Sticking to a Habit When It Means Discomfort?

Old King Coffee knocks subjects out tolerably flat at times, and there is no possible doubt of what did it. A Mich. woman gives her experience:

"I used to have liver trouble nearly all of the time and took medicine which relieved me only for a little while. Then every once in a while I would be suddenly doubled up with an awful agony in my It seemed as though every stomach. time I took a breath I would die. No one could suffer any more and live.

"Finally I got down so sick with catarrh of the stomach that I could not turn over in bed, and my stomach did not digest even milk. The doctor finally told me that if I did not give up drinking coffee I would surely die, but I felt I could not give it up.

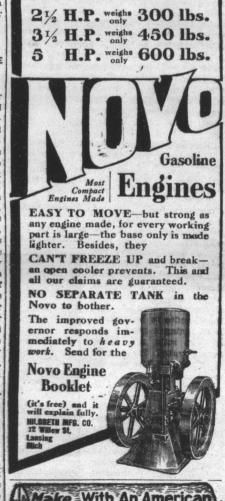
"However, Husband brought home a package of Postum and it was made strictly according to directions. It was the only thing that would stay on my stomach, and I soon got so I liked it very much.

"Gradually I began to get better, and week by week gained in strength and health. Now I am in perfect condition, and I am convinced that the whole cause of my trouble was coffee drinking, and my getting better was due to leaving off coffee and taking Postum.

"A short time ago I tasted some coffee and found, to my astonishment, that I did not care anything about it. I never have to take medicine any more. I hope you will use this letter for the benefit of those suffering from the poisonous effects of coffee."

Read the little book, "The Road to Wellville," in pkgs. "There's a Reason."

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





folded back upon the completed work; at auction, not allowing any person to dressed Dep't R 48, is sufficient application. B. S. & A. B. LACEY, Dept. 89, WASHINGTON, D. C. Est. 18

IMPROVING THE CORN CROP.

It is conceded that the corn crop is one of the most important crops with which we have to do upon the farm, and there is probably no other crop that has been so thoroly discussed as this particular one. As we stop to consider this question, it seems that all points have been previously covered, and nothing has been left unsaid. But when we come to realize that our average yield is only about onehalf of what it should be, it seems that there must be something said or done to overcome this great deficiency. When we know that the average yield is only 26 bushels per acre, and a great many of our farmer friends are getting from 50 to 80 bushels of shelled corn per acre, we must come to the conclusion that the larger per cent of corn growers are getting so small a yield that there cannot possibly be any profit derived.

Where does the trouble lie? Is it because we are not schooled along the proper lines, or because we have been putting too much stress upon some of the details, and overlooking many of the others; or is it not because we are not practicing what we already know? I believe the latter idea is the correct solution of the problem. A great many people attend institutes, and read articles on the subject, but that is as far as they go. There has been a great deal said about the selection of seed, which is very important, and should not be overlooked, but this alone is not sufficient. A certain professor in summing up this question says: "The most important thing in corn culture is the fertility of the soil.'

We cannot grow a good crop of corn unless we have our soil in a high state of cultivation. In the first place, we want to see well to the draining of our land, because corn will not germinate and grow if it has too much water, and I believe that we ought, if possible, to prepare our land so as to withstand either flood or drought.

In the next place, we want to have our soil fertile, so that the plant food is available, or in a soluble condition. Before the young plant can feed upon the plant food in the soil, it has to be in a liquid form or decomposed, so that it becomes a part of the moisture in the soil. It is conceded by all that a clover sod well manured produces the most suitable land for Why is this the case? Because they help to bring about the conditions above mentioned. Corn is an acclimated plant, having originally been brot from the south, and it is also a plant that requires much heat. The clover sod and the manure, while in the state of decomposition, produces this heat, which is very essential, and as the sod decomposes it sends the required liquid manure into the soil also, thus meeting all the requirements necessary to a satisfactory

It is right along the line of soil fertility that is the cause of the low average yield in the western corn belt, where they grow corn year after year, on the same land, without any regard to the replenishing of the fertility of the soil.

Having obtained good seed, and with the land in proper condition, the next important thing is the planting. Carelessness in this particular alone, is often the cause of a partial failure. I have seen corn fields, marked both ways with a corn marker, where men were planting with hand planters, plunging them in, without any regard to the depth at which they were planting. I know a very successful corn grower, who will not allow a man to plant corn with a hand planter unless he is with him. Corn, if conditions are right, should not be planted over 11/4 inches deep, as it requires heat and air to sprout, and if we get it too deep, it excludes both, and the result will be a failure. The horse planter is the ideal method of planting corn, as you can get it a uniform depth with very little trouble.

Cultivating should be done with two objects in view. First, the destroying of weeds, and secondly, the retaining of moisture. Cultivate deep enough to destroy the weeds, and still shallow enough so as not to injure the corn roots. Never let the weeds get the start of you. How much seed should we plant to the hill? That depends upon what we are going to do with the corn. If it is for the grain, three kernels to the hill is enough. usually plant more, and then thin, leaving the three best stalks, and I am satisfied that it pays to do this.

I am also satisfied that the majority of

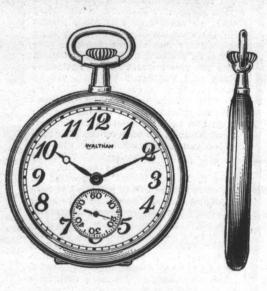
us plant too late in the season.

I would rather have a week in the spring than two in the fall to hasten the ripening of the corn.

W. A. ELLIS.

WALTHAM WATCHES

The Authentic American Watch



It is universally acknowledged that the United States has produced the best machinery in the World. American agricultural implements, electrical machinery, locomotives, clocks and Waltham Watches lead in the markets of the World. As long ago as the Centennial Exhibition in 1876, the Commissioner from Switzerland visited the Waltham Watch factory and picked out a watch at random from a lot of others. When he returned to Switzerland he told the Swiss Watch Manufacturers that not one Swiss watch in 50,000 would compare with that Waltham watch he had picked up haphazard at the Waltham Factory. A statement even more true now than then.

We advise you to buy a Waltham Watch adjusted to temperature and position and to buy only from a jeweler because he can regulate it to your personal habit and occupation. Never buy from Mail Order Houses. They cannot have the thorough knowledge or the equipment for regulating high grade watches.

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For Sale Cheap Brilliant bred negister black 16% hands bigh. Weight 1800 ibs. sure. Bell phone. J. C. BUTLER, Porth

BUILDING A CONCRETE HOG HOUSE.

When an efficient system of ventilation is provided, as it is contemplated in this case, we do not believe that there would be any noticeable dampness in the hog house if built entirely of concrete. The moisture which is observed in tight hog houses, or stables of any kind, results from the condensation of moisture from the moisture laden air exhaled by the animals on the cold walls of the building. While the result would not be noticeable in the well ventilated building, yet as plenty of light is essential in the hog house, its construction would be somewhat simplified by the plan of making the upper portion of the building from lumber. Prof. King, in his book on the King sys-

tem of ventilation, emphasizes the fact that hogs require more fresh air than any other of our domesticated animals, and states that there should be provided an area of 26 square inches per head in both intake and out-take flues where the latter is 15 feet high. He recommends that the main shaft be located centrally when it will answer every purpose and be more cheaply installed while the intake flues are located about the walls of the building and their combined area being made equal to the area of the main ventilation shaft. With this basis in mind, it will be easy to figure the capacity of the ventilating flues which should be installed as this should depend more upon the number of hogs which may be kept in the building than upon the size of the building itself. Thus if the fifty hogs were to be kept in the building, an area of 1,300 square inches would be required in the main ventilating shaft which would require a shaft approximately three feet square. In like manner the requirements of the area of ventilating shafts for a less number can be easily ascertained, it being kept kept in mind that the dimensions given are sufficient to furnish an abundance of pure air for nogs of a matured size. The intake flues should be arranged so that the volume of air admitted can be controlled by closing a portion of them if desired as may be required in case a strong wind prevails from any direction.

EEEDERS' PROBLEMS.

Amount of Potatoes which May be Fed. How many potatoes can a cow eat without hurting her, and how many can a horse eat? Why I ask this is the fact that potatoes are cheap.

J. L. K.

As noted in a recent article on this subject in some foreign experiments conducted to determine the amount of potatoes which might be fed to cows, it was found that good results could be secured when potatoes furnished as high as 50 per cent of the total dry matter of the ration. However, not more than 40 or 50 pounds of potatoes should be fed per day to a cow of average size in connection with other feeds for the best results, the future health and condition of the cow being taken into consideration. Horses. especially if at work, should be fed a less amount, probably not more than 25 to 30 pounds per day being about all they can be fed with profit. This, however, is a question which can safely be left with the individual feeder, if he is a close observer of the animals he is caring for, as there is undoubtedly considerable difference in individuals with regard to the proportion of the ration which may safely be made up of roots of any kind or pota-toes in particular. This succulent feed should, of course, be fed in small quantity at first, the feed being increased gradually until the maximum is reached.

TREATING SHEEP SKINS.

so that the wool can be pulied off instead of clipping it off. Not particular about the skin; no sale for them here.

Chippewa Co. The wool on sheep skins may be easily pelt is removed and if the same is folded little wool will be lost by leaving on the them as when bestowed upon any other pelt.

THE SPRING MANAGEMENT OF THE WORK HORSES.

As the season for active field work approaches, the farm horses should come in for a share of the farmer's thoughtful consideration. Almost every spring some farm horses, and particularly young horses, in every community are put to work in an unfit condition, with the inevitable result that their value is decreased and their period of usefulness shortened. This is due to several causes. First, they have not generally been propexercised during the winter season and their muscles are soft and their hair long, a combination which makes them unequal to the hard work to which they are sometimes put without any preliminary period for getting them into proper condition.

For some weeks before the hard farm work begins, the horses should be better fed and better groomed in order to put them in good "heart" for the hard work to come. Then they should be worked in moderately at the start in order to get their muscles properly hardened for the more severe tasks which follow. It is not an uncommon thing in spring, when the horses are put to heavy plowing, to their shoulder muscles quiver, the result of the severe strain placed upon them and many a young horse has been sweenied or otherwise injured because the driver did not appreciate the necessity working him moderately until he had gotten into a physical condition to endure the heavy work without such injuries.

Another frequent cause of injury to horses is poorly fitted harness. Possibly the collar may have fitted fairly well be-fore the horse was put to work, but the inevitable shrinkage in flesh which results from the strain of the hard spring work soon makes the collar loose and sore shoulders, sore necks or galls are the natural result. These are too often allowed to develop without applying the proper remedy of a better fitting collar and are at best difficult to heal when once started. As a consequence the horses are unfitted for work and in many cases are left with unsightly scars which no future treatment can remove. Aside from the humanitarian standpoint, it is good business policy to give attention to these little things in getting the farm horses worked in properly during the spring season.

A proper ration for the horse is another point which should receive the careful attention of every farmer at this season the year. Where oats are available they make, either alone or in combination with corn, a very satisfactory ration for the work horses, but where corn alone is available it will pay to supply some other ingredient in the ration which will help to balance up this feed, as the horses can be kept in good condition more cheaply when a fairly well balanced ration is fed. Another little thing which is too often neglected with horses, is to provide them with salt. This may best be done by keeping it before the horses in a little box all times, so that they may satisfy their natural appetite without eating too much salt at one time which will increase their thirst and keep them in discomfort while at work. Another thing which is very beneficial to horses, especially during the spring season is the feding of some roots. This gives a desirable succulency to the ration, and has a cooling effect which offsets the heating tondency. effect which offsets the heating tendency of the liberal grain ration which must be provided to keep horses in condition while at hard work. Often the roots are not available, but in a season when potatoes are plentiful and cheap, as they are this spring, it is well to feed the horses as many as they can utilize with economy in the ration. Too many farmers allow their horses to become thin in flesh during the hard work of the strenuous spring season, with the result that they remain KENTUCKY MAMMOTH JACKS. Would like to ask through The Farmer thin throughout the year or until the fall there is any way to prepare sheep skin work is over. It is the experience of good work is over. It is the experience of good horsemen that it costs no more to keep the horses in good condition throughout the year, provided they are fed and worked judiciously, than it does to allow loosened if a liberal sprinkling of ashes them to become thin and then be obliged is put on the flesh side as soon as the to put them into condition again, and besides, a horse that is thin in flesh and together, and a few days' time is allowed broken in spirit will not give as good refor the ashes to act on the hide. An turns for his feed as one that is kept in occasional examination will denote when good condition throughout the work seathe wool is loosened and may be readily son. The farm horses are worthy of as pulled. Whether this will work satisfac- careful feeding and attention as the farm torily on dried pelts or not, the writer stock which is maintained as a source of can not say, but these may be easily profit, and good care and attention will clipped by Eafling them to a barrel and pay as well or better when bestowed upon

class of farm stock.

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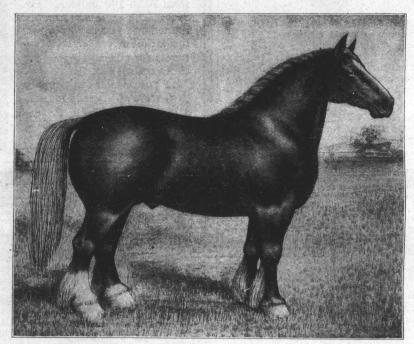
To become a successful breeder of purequalifications, the first and foremost of which should be honesty and an unimpeachable reputation for square dealing. uality of the breeder fully as carefully as that of the animals he buys. Reputabuilt up by hard work, patient waiting proved by intelligent breeding, and severe tests of his moral qualities. It requires concentration of A good reputation is an asset of incalswine.

Every man understands whether or not to prevarication, misrepresentation, say to you, if you are of this class, is "Keep your hands off from the business of breeding opure-bred swine." One mistake and your business is likely to be ruined and every reputable buyer will regard with suspicion, tho the animals may be indi-

If he is to become famous and have his

of great value. One that tells of quality and digestive power, or the contrary. In all show rings we find animals with flanks cut up and twists as open as those of a bred swine a man must possess certain dog. The well let down full flank of the hog is of special importance to him over any other meat producing animal, since the lower cut of the side has become one The discriminating buyer of registered of the high-priced cuts, under the skillful swine will study the pedigree and individ- uses of all parts of the carcass by the packers. The ideal side must carry its thickness well back. This is only one of tion is the expression of character and is the many utility points that can be im-

It requires concentration of effort to stamp his individual trade mark upon his culable value to a breeder of registered stock. Such characteristics cannot become fixed and permanent by jumping from one ideal to another and bringing he is a strict teller of the truth, or given together animals from unrelated families of the breed. Nature varies widely when evading the cold straight facts. All I can such shot-gun methods of breeding are practiced. Successful breeders keep their ideals well in mind and by concentrated effort aim to develop them by selection and mating. The true breeder's mind is you will be left with a herd of swine, that constantly occupied by such questions as selection, mating, feed and care in order that he may come as near as possible to vidually good and worth many times approaching his ideals. His ideal is never what you are asking for them. It is a reached, for the more nearly he comes to mistake for a breeder to allow his com- approaching it, the more clearly he notes mercial cleverness to dull his moral sense, the deficiencies of his animals, and he is spurred on to higher and better ideals. stock much sought after he must not He is in the business because he loves his only be a judge, but a prophet, always animals and he has given his work such keeping one eye on the present and the a prominent place in his mind that he other looking far ahead into the uncertain quietly pursues his chosen path until na-



Three-year-old Shire Stallion. Wt. 1810 lbs. Imported by Geo. E. Brown, of Illinois.

future. It is a perennial source of joy ture gently whispers that his life's work and pleasure to follow the course of pigs is nearly done. The true breeder who degrowing up and anticipate in that the devotes his life's work to improving and velopments that are likely to take place. perfecting his favorite breed deserves re-It is a genuine pleasure to have one pig spect as a public benefactor. grow and develop as he wished it to. It is the pure ecstacy that comes from play- money handling registered swine. ing the role of a prophet that leads him are multipliers and speculators whose on to make a closer study of the future whole end and aim is making money with-

much disappointment. must be good to begin with, and if a misinducements.

Success and fame are reached only thru which differentiates ity as a merit a manner that will display his individual Breeders do not envy him his profits for in value from a commercial point of view. more stock to strengthen his show or originality and to try and perpetuate out.

commercially to the value of his herd. For instance, there is the flank, a point prize money and free advertising to create

Many who are not breeders have made requirements of the breed in years to out adding to the mundane value and come and how best to meet them. knowledge of the material with which Obviously, breeding cannot be an easy they have worked. Men who multiply in-Success means a tremendous ferior swine and undersell the more painsamount of hard work, many failures and taking breeders obtain no pleasure from The foundation pure-bred swine thru their eyes and are a draw-back to the business. The stock take is made the way must be retraced they disseminate is a libel to the breed to correct it and repair the damage. To and to the herd from which their ancestry the man with a clear cut conviction of came. They seldom pay a good price for just what he wants and who has the an animal to strengthen their herds, unnecessary ability to stay with the busi- less compelled to buy one occasionally to ness until it is accomplished the field of delude their mail-order customers by breeding registered swine offers inviting making them believe that their herd possesses good lines of blood.

The speculator who buys his stock turning out a class of animals that pos- from the breeders depends upon his abilsalesman them from the great mass of animals of animals of a particular family of the the breed to which they belong. It is the breed and sell them for many times what increased value of his herd as influenced he paid the breeders for them. He is in by his individuality which forms the the business purely from a money-making criterion by which the value of his work standpoint. Many breeders think that he is measured. Success and fame do not is a detriment to their business, but I always come from "creating lines of believe in giving him due credit as being beauty" or establishing "points pleasing a sort of a necessary evil under the presto the eye," but rather from breeding in ent system of selling registered swine. trade-mark which makes for the increase they know that he will come back after The field for breeding along practical util- sales herd or to breed from so that he will ity lines is wide. There is abundant op- have a good supply of stock on hand when portunity for every breeder to employ the prices are favorable for him to sell He frequently gets together an exsome particular feature that shall add cellent show herd and makes a circuit of the leading state fairs, depending upon his



conditions, in all grain growing countries of the world, and its ability to produce results, have put it in a class by itself—the grain binder of today, tomorrow and all times to come-the binder you will be delighted with.

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sell out at a large profit.

Breeders, multipliers and speculators are all aiming at the same goal, "profit," but their methods are diametrically opposite. Breeders want to obtain a reasonable price for their surplus stock and desire to give their customers value received for their money. The man who multiplies inferior stock obtains every dollar possible for his poor stock and depends upon the quality of the true breeder's stock and the inflated prices created by the speculator to aid him in fleecing his customers. He continues in the business as long as he can find farm papers that will carry his advertising and victims to buy his stock. The sepculator wishes to make a fortune in a few years and retire from the business and invest his money in other lines of business. He leaves the business with no regrets as soon as he finds an opportunity for financial gain in other lines. Before investing in pure-bred swine it will be well to ask vourself whether you are to become a breeder, a multiplier or a speculator. have too many multipliers and speculators, but there is always room for a new breeder who will tread the path of unwavering honesty.

New York. W. MILTON KELLY.

THE EWES AT YEANING TIME.

Every flock owner knows that the most critical period of a sheep's life is during the first few hours of its existence. The lamb that is strong and vigorous and able to get up from the start and care for itself is the most satisfactory and profit-Nothing is more discouraging at lambing time than to have a large number of lambs dropped low in vitality that must be helped to nurse for a week or ten days in order to make them live. It is always a great pride to a flock owner and credit to his management to say that his lambs came strong and healthy and that it was unnecessary to get up nights in order to help a few puny weaklings nurse. Instances are not uncommon, however, where flock owners have kept their ewes in good condition and yet their lambs are dropped weak and puny and many come dead. The direct cause is not always easy to locate although improper care and feeding during the pregnant period is generally responsible.

Much of the success at lambing time is due to the care and attention the ewes receive the few months previous, and the first few days or weeks following. Every attention may be given the ewes during the yeaning period, but such care can not overcome conditions that have been gradually developing for several months previous. Many a flock owner becomes discouraged on account of the difficulty encountered with the ewes at yeaning. There is but one solution to the situation and that is to give the ewes thoughtful and careful feeding and care throughout the entire winter season. To secure strong, healthy lambs at birth the ewes must be kept in good flesh, not too fat, but in what is termed thrifty condition.

An important matter to be studied by flock owners that tends toward a successful lambing season is the performing of operations necessary to overcome abnornormal conditions that frequently develop under the best management. When an operation seems advisable sentiment should be set aside and the work taken up in a businesslike manner, exercising prudent judgment in each step to perform the work with as little danger as possible. Not infrequently delay in offering assistance is dangerous and sometimes fatal. When assistance must be offered the patient should first be examined to note her physical condition. If the ewe appears weak and about worn out a stimulate should be given to save her from exhaustion. Do not under any cir-cumstance apply cruel methods. If you are incompetent to perform the operation one who does understand the

demand for light cuts of fairly cleap beet, and of late not only good, fat cows and helifers, but even canners and cutters, have sold extraordinarily high. At the same time there must always be an assured demand for choice, heavy beeves for take in feeding their breeding ewes too sparingly rather than too heavily. Ewes, as they approach yeaning, generally lose flesh very rapidly and to endure the strain upon their vitality must be liberally fed and cared for. As soon as a ewe drops her lamb and is fully recovered she should be fed for milk production. Her ration, if properly balanced before lambing, need not be materially changed except perhaps the protein content incept perhaps about it in a humane demand for light cuts of fairly cleap beet, and of late not only good, fat cows and helifers, but even canners and cutters, have sold extraordinarily high. At the same time there must always be an assured demand for choice, heavy beeves for eastern markets, to say nothing of the demand in Chicago, and as stockmen have easied to produce many of these, there has been a ready outlet at a high range of prices, and they have been selling in the Chicago market at the highest prices seen at this season in many years.

W.S., J. B. and B. Dunham, proprietors of Oaklawn Farm, Wayne, Ill., recently announced the arrival of a fresh important addition to their stables. They report record-breaking sales during the cept perhaps the protein content increased. The flesh of the ewe will determine largely the amount of grain she dence that farmers in all parts of the ought to have daily. Liberal feeding is the keynote to giving the lambs a good draft horses.

a boom for his stock and enable him to start, and when once well staraed they will take care of themselves Shiawassee Co. LEO C. REYNOLDS.

TRAINING THE HORSE.

Everybody appreciates the difference between well trained and an uneducated Every owner and user of a horse horse. prefer to have him properly would trained or educated. But he unfortunately in most cases, does not fully understand the principles which underlie the proper training and education of even an intelligent horse. These principles are all important and their proper observance enables horse trainers to accomplish wonders in their line of work. The writer has seen a trainer take a pair of young horses that had never before worn a strap of any kind, not even a halter, and inside of 24 hours lead them away behind a carriage without any difficulty or demonstration whatever. Many of these little things which should be observed in the breaking and training of horses are not at all appreciated by the average man who would be greatly benefited by practical instruction in their application. Many a good horse is spoiled by improper treatment which would have afforded its owner a long lifetime of usefulness had proper methods been employed in its early education and use. Horses have as distinct individuality and temperament as men, but the superior intelligence of man counts when applied to the task with an appreciation of the horse's intelligence, memory and personal spirit. Where the importance of these principles is not fully appreciated, they should be studied by the man who would acquire skill in the training and success in the education of horses just as the personality of the children must be studied by the teacher who would succeed in their training and ed-

LIVE STOCK NOTES.

LIVE STOCK NOTES.

In the Chicago market the best outlet for stocker and feeder cattle is still thru eastern sections, with Indiana, Ohio and Pennsylvania buyers taking a large share of the offerings, while some good shipments have been made to Virginia. The Illinois stock feeders have shown a market preference for good weight cattle which can be given a short feed and sent back to market quickly. These high-grade weighty feeder cattle sell exceptionally high, as they are all the time badly wanted by killers. In recent weeks numerous lots of 900 to 1,000-lb, feeder steers have been purchased at \$5.6006 per 100 lbs., with some prime lots taken at \$6.1006.60.

The rise in hogs recently in the Chicago market to \$10 per 100 fbs. and over, came about sooner than had been generally anticipated, the receipts falling off to unexpectedly small proportions. Buying orders have much exceeded the limited offerings, with a pressing demand for droves of hogs for the eastern markets, as well as a persistent call on local account for hogs for the fresh meat trade, as well as for cutting up into cured products. Hogs are commanding the highest prices recorded since the civil war, when gold was at a high premium and values for everything were on a greatly inflated basis. In 1865 hogs made the high record mark of \$12.75 per 100 lbs., and \$10 was the lowest price of that year. Packing plants went out of business on account of high prices and scarcity of money, leaving only a few slaughterers who had contracts to fill, to do any buying. These high prices did not last long, however, for hogs sold down to \$6 in 1866. Of course, provisions have been moving upward with hogs, and seasational advances have taken place recently, putting pork about \$8 per barrel higher than a year ago and lard, bacon, hams, etc., proportionately high. Stocks of provisions are everywhere unusually low in size.

Jose Balieni, of the City of Mexico, has been in the Chicago market purchasing a consignment of carriage horses for export. He reports that the introd



The Tick Question

Ticks do not develop wings in adult life, therefore never leave the animal except by ac-cident. They not only sap the very life out of the sheep, but also destroy the wool.

AND DISINFECTANT

is sure death to all sheep ticks. It is also a guaranteed cure for Sheep Scab, Foot Rot and every form of Mange or other parasitic disease of the skin in horses, cattle, sheep, hogs, dogs and poultry. It is also excel-lent for disinfecting and deodorizing hog pens, chicken yards, cow stables, sinks, closets, etc.

One gallon of Dip makes from 70 to 100 gallons. Dr. Hess Dip and Disinfectant diluted one part to 70 of water meets the Government requirements for official dipping for sheep scab.

If your dealer can't supply you, we will. Write for cir-

DR. HESS & CLARK Ashland, Ohio



WAR DEPARTMENT

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I have great faith in your medicine. I cured a bad senden on a horse which had been fired and seemed beyond all hope. I also oured a sprained tenden in another horse within two weeks:
CAPTAIN J, N. KHIAN, 3d. & Olive Sts., Commissary U. S. Army.

FREEPORT FIRE DEPARTMENT:
Troy Chemical Co., Binghamten, N. Y.

Freeport, I. L., Now. 28, 1999. Enclosed check for hotile. "Save-The-Horse." Every horseman around here shought horse was its curable, but don't think so now. Here is what I have done vith "Save-The-Horse." Every horseman around here shought horse was its curable, but don't think so now. Here is what I have done vith "Save-The-Horse," and some of these cared to-day. In fact, I am not arriad to undertake any case without the guarantee.

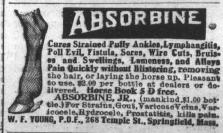
The first case was a gray more with bone spavin, over three years standing. So lame ever the shought she would never go so there to the Froet's Colf Club every week day.

The nox case was a fire blooded horse with singhone, belonging to a friend. In two months' time he did not take a lame stop. Also cured a Fole Pony who was hardly able to get out of the stable, both hind legs affected with the worst bone spavin Lere aw. Bought him for ten delbar, and everyone said I would have to saw off his legs and have new ones made. The whole bock was affected. He had been fired and blistered three times. I used "Save-The-Horse," and in ten weeks' time you would not know that he had ever five spavined, except for the marks of the fining iron. Have also cured a fine saddle herse of thoroughpin. Wall be glad to see anyone regarding these cases. CARL DARENBERG.

55.00 a bottle, with legal written guarantee or contract. Thoroughpin, Ringbone (except low), Curch, Splint, Capped Hock, Windpull, Shoes Bell, Jajuard Tendens & all Lemens & Near or loss of his. Horse works as usual. Dealers or Exp. paid.

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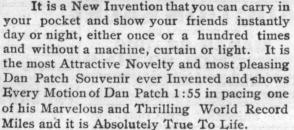


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King of all Horse Creation as plainly as if you stood on the track and actually saw the mighty Dan Patch 1:55 in one of his Thrilling Speed Exhibitions for a full mile. Just think of it! 2400 Moving Pictures Taken Of Dan in 1 min. and 55 sec. means 21 pictures taken for every second all of the way around the entire mile track from the back seat of a high power automobile.

You Can See Dan Shake His Head To Let His Driver Know That He Is Ready And Then You Can Watch Every Motion Of His Legs As He Flies Through The Air With His Tremendous Stride Of 29 Feet. As A Study Of Horse Motion Alone This Is Better Than If You Saw The Actual Speed Mile Because You Can See Dan Patch Right Before You For Every Foot Of The Entire Mile And Not A Single Motion Of His Legs, Body Or Head Can Escape You.

You can see his Thrilling Finish as he strains every nerve and muscle to reach the wire in record breaking time, you can see his driver dismount and look at his watch while thousands of people crowd around, you can see his caretaker force his way through the crowds, uncheck Dan and then throw a beautiful woolen blanket over him to prevent catching cold and

a Madly Cheering Multitude of 90,000 People. Wherever the Original Moving Picture, of the Fastest Harness Horse In The World, is shown, people involuntarily call out "Come on Dan"—"Come on Dan." The Original Moving Picture Of Dan Patch Pacing A Great Mile Is The Most Realistic, Thrilling Picture You Ever Saw. I Have Taken A Large Number Of The Original 2400 Wonderful Pictures And Made Them Into A Newly Invented Pocket Moving Picture that you can easily carry with you in your pocket and show to your friends at any time, day or night. It does not need a machine, it does not need a curtain and it does not need a light. It is all ready to show instantly, either once or a hundred times CREATES A SENSATION WHEREVER SHOWN.

If you admire a Great World Champion who has gone more Extremely Fast Miles than All of the Pacers and Trotters Combined that have ever lived then I am sure you will write me today for one of my Wonderful Moving Pictures of the King of all Harness Horse Creation, Dan Patch 1:55. The Reduced Pictures On This

Page Show Dan In 16 Different Positions. YOUR MOVING PICTURES WILL BE MUCH LARGER IN SIZE AND NUMBER.

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IF YOU ARE NOT A STOCKOWNER AND WANT THE PICTURES SEND ME TWENTY-FIVE CENTS FOR POSTAGE,

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I OWN THE 5 FASTEST WORLD CHAM-PION STALLIONS EVER OWNED ON ONE FARM IN THE HISTORY OF THE WORLD.

TWO WITH RECORDS BELOW TWO MINUTES. On my "International Stock Food Farm" of 700 acres I own Dan Patch 1:55, Minor Heir 1:59\%, Directum Jr. 2:10\%, Arion 2:07\%, Roy Wilkes 2:06\% and also about 200 head of Young Stallions, Brood Mares and Colts and they eat "International Stock Food" every day. I will be pleased to have you visit my farm at any time and see my horses and their splendid condition. I feel sure that you never saw their equals at any Fair or Horse Show. ACTUAL TEST IS WHAT PROVES EVERTITHING IN THIS WORLD. If "International Stock Food" gives paying results for the highest AGIVAL TEST IS WHAT PROVES EVERYTHING IN THIS WORLD. If "International Stock Food" gives paying results for the highest priced horses in the world on my farm it certainly will pay you to use it for all of your stock. Remember that if it ever fails to give your Horses, Cattle, Sheep or Hogs, better assimilation and digestion, purer blood and perfect health with quick growth and fattening that it will not cost you a cent no matter whether you have used one hundred pounds or five hundred pounds and you are to be not only the user but also the sole judge of results. I will leave the entire matter for you to decide and accept your own statement. How the United States Government backs my claims that "International Stock Food" is strictly a medicinal tonic, blood purifier, eic. During the Spanish-American War, United States officials made a special examination and decided that "International Stock Food" was strictly medical and I paid \$40,000.00 patent medicine war tax. Can any honorable man deny this evidence? "International Stock Food" and label design is registered in Medicinal Department as a Trade Mark No. 52791 giving it commercial standing and rights as a distinctive "TRADE NAME" FOR A MEDICINAL, TONIC PREPARATION

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Dan Patch Stable Disinfectant Dan Patch White Liniment International Worm Powder International Hoof Ointment

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DAN PATCH 1:55

| 1 | MILE IN | 1:55 |
|-----|-------------------|-------|
| 1 | MILE IN | 1:55% |
| 2 | MILES IN | 1:56 |
| 14 | MILES AVERAGING . | 1:56% |
| 30 | MILES AVERAGING . | 1:57% |
| 45 | MILES AVERAGING . | 1:58 |
| 73 | MILES AVERAGING . | 1:59% |
| 120 | MILES AVERAGING . | 2:02% |

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International Colic Remedy
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International Louse Killer
International Louse Killer
International Louse Paint
International Hap Dip
International Louse Paint
International Hap Dip
International Gall Heal
Silver Pine Healing Oil
International Healing Powder
International Healing Oil
International Healing Powder
International Worm Remedy
Inter

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

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

O. G., Stockbridge, Mich.—Your two ewes died the result of liver, and perhaps some bowel trouble. Drugs do not help

some bowel trouble. Drugs do not help such cases.

Heifer has Warts on Teats.—Our two-vear-old heifer is troubled with warts on her teats. A. S., Gibson, Mich.—Cut them off with a sharp knife and apply Monsell's' solution of iron to stop bleeding and to heal wounds apply borac acid, and alum, equal parts.

Knuckling—Weak Kidneys.—We have a five-year-old mare that is a little ankle cocked at times; urinates too often and I believe has weak kidneys. A. R., Tuscola Co., Mich.—Apply equal parts turpentine, aqua ammonia and sweet oil to fetlock joints every day or two, or apply a blister using cerate of cantharides, once a week. Give 2 drs. lithla at a dose in feed two or three times a day.

Garget.—My three-year-old heifer came fresh 10 days ago. Now one quarter of udder is caked. C. J. L., Prattville Mich.—Give one oz, fluid extract phytolacca root at a dose in a pint of water as a drench three times a day and apply one part extract of phytolacca and eight parts vaseline to caked udder twice a day. Umbilical Hernia.—My ten-months-old colt has a navel rupture which is about one-half the size of a goose egg. Z. H. C., Leonard, Mich.—In order to effect a cure a surgical operation will have to be performed and the work should be done by a competent veterinarian. The operation is not dangerous and is usually successful.

Weak Ligaments and Tendons.—Have been the size of a goose that has a been the size of a context the second of the size of a context the second of the size of the context of the operation of the size of the operation of the size of the operation of the

by a competent veterinarian. The operation is not dangerous and is usually successful.

Weak Ligaments and Tendons.—Have a horse that has weak tendons and the ligaments of fetlock are swollen; have belistered him twice and used white liminent. R. K., Marine City, Mich.—Blister fetlock and tendons with cerate of cantharides once a week for two weeks then apply equal parts turpentine, aqua ammonia and sweet oil lightly every evening.

Dislocation of Patella (stifle).—Last May my three-year-old colt threw her stifle out. I put it back in place; three days later I had to put it back again and it has remained in place, only I imagine the stifle ligaments are not strong. C. H. C., Coleman, Mich.—Apply one part aqua amonia, two parts turpentine and seven parts sweet oil to stifle every evening.

Rhepmatism.—My five-year-old horse.

H. C., Coleman, Mich.—Apply one part aqua amonia, two parts turpentine and seven parts; sweet oil to stifle every evening.

Rheumatism.—My five-year-old horse had kidney trouble four weeks ago; since then he moves stiff and sore for a few minutes after he gets up. What had I better give him? A. R., Kings Mill, Mich.—Give two drs. citrate of potash and one dr. colchicum seeds at a dose in feed two or three times a day, and if the fore feet are hot and tender, stand him in wet clay one hour a day.

Injured Mare.—I have a six-year-old mare that accidentally stepped in poke which threw her in a pond of water. She remained there for some time; since then she has shown stiffness in one shoulder and the lower muscles are some wasted and I would like to know if this will disqualify her for breeding purposes. M. A. N., Watervliet, Mich.—I know of no reason why she should not be useful for breeding purposes and her shoulder soreness and atrophy will be helped by applying equal parts aqua ammonia, turpentine and sweet oil to shoulder three or four times a week.

Lice on Colts.—I have two colts coming two years old and one coming three years that are troubled with lice and I have applied lice powder which I bought at the drug store, but it fails to kill the lice. A. S., Carleton, Mich.—Put five ozz. of crushed stavesacre seeds in a gallon of boiling water, keep it simmering for an hour or two, strain it and fill with water to original quantity, then apply to lousy colts every day or two and it will soon kill the lice. If they are very rough coated perhaps you had better clip them. One part carbolic acid and 30 parts water kills lice quickly, but it should not be applied too freely to rough casted horses; but I frequently apply it to lousy ones after clipping them.

Sharp, Uneven Teeth—Contracted Hoofs.—I have a 10-year-old horse that eats fairly well, keeps thin, but does not appear to be sick; he also has badly contracted fore feet. G. D., Dow, Mich.—Float the sharp edges off outside of upper and inside of lower grinder t

hoofs twice a day and blister coronets with cerate of cantharides every 10 days. Dehorning—Cow Leaks Milk.—Will dehorning a heifer or cow produce abortion? I also have a cow that leaks milk from one teat. Can you suggest a remedy? J. I. C., Halfway, Mich.—Use a dehorning tool and to stop bleeding use Monsell's solution of iron or some tar and oakum and it will not cause your cows any inconvenience. Use a teat plug, which the Lawrence Publishing Company can supply you with.

Indigestion.—Six-year-old cow came fresh a week ago after being dry two of milk at a milking; formerly she was one of my best cows. I feed her constalks, hay, bean pods, carrots, bran and corn meal. How can I increase her milk flow? E. S., Sanford, Mich.—Give her 1 lb. of Epsom salts to clean her out, then give two tablespoonfuls ground gentian and the same quantity of ground ginger at a dose in feed three times a day. She should have been dry from four to six weeks.

LOOK FOR *ne'<u>New-Way"</u> AIR-*COOLED ENGINE

is replacing the old-fashioned water cooled just as surely as power is replacing manual labor on the farm. Don't Buy a Water-Cooled Engine and have to fill and empty a big water tank and crank half the morning trying to start a well engine.

Ask the man who owns a "NEW WAY" he don't have this trouble. We will give you plenty of names. Use judgment. Profit by experience of others. The only air-cooled engine guaranteed for all work,

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SIX DAYS' TREATMENT FREE to new sustomers, if you send 4c to pay postage. If your druggist can't supply you

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For Sale—Horses, Cattle, Sheep, Hoge, Dogs or Poultry, nearly all breeds. Sirce exchanged. Southwest Michigan Pedigreed Stock Association, R. E. Jennings, Sec., Paw Paw, Mich.

BRY BATTERIES renewed by anyone for 18 \$1. Will send it this week for 35c. PAIRMOUNT TELEPHONE CO., Leightons Corners, N. H.



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REMEDY CO., Detroit, Mich., tels how, FREE

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WE WILL SELL ON

MARCH 22, 1910, Our entire herd HOLSTEINS

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Registered Aberdeen Angus Bull nine months old. Good one Inquire of F. J. WILBER, Clio, Micn., Route I.

Ayrshire Buil Calves. Berkshire swine. Eggs for setting. High bred stock, White & Builf Orphigtons, White & Barred Rocks. Light Brahmas, White Leghorus and White Wyandottes \$1 per 15. Mich. School for the Deaf, Flint,

ABERDEEN-ANGUS.

Herd headed by UNDULATA BLACKBIRD 176 \$3\$36, one of the best sons of PRINCR PTO 509066, and Grand Champion Bull at the Detroit and Grand Empids Pairs of 1907, 1908 and 1909. Herd consists of Ericas, Blackbirds, Prides, etc. WOODCOTE STOUK. FARM. Ionia. Mich.

Maple Ridge Farm Breeders and Importers of high class Guernseys. Write us your wants. E. & J. T. MILLER, Birmingham, Mich

Holsteins Bull calves for sale from A. E. COLLIER, R. F. D. 5, Fowlerville, Mich.

BOARDMAN STOCK FARM, Holstein Cattle. JACKSON, MICH.

Has more imported Holstein-Friesian Cowsthan any farm in the Middle West. Registered BULL CALVES of the most fashionable breeding.

FOR SALE—Young herd of Hoistein heffers, 7 yearling bulls, 3 calves—the oldest established herd in Ind.
W. C. JACKSON, 715 Rex St. South Bend, Ind.

TOP NOTCH HOLSTEINS. Top Notch registered young Holstein Bulls com-bining in themselves the blood of cows which now hold and have in the past held World's Records for milk and butter-fat at fair prices. MCPHERSON FARMS CO., Howell, Mich.

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Holstein Bull Calf, grandson of Pietertje Hengeroeld's Count De Kol. R. C. R. I Redeggs 75 cents for 13. J. W. DAVIS, Leslie, Mich.

Holstein Service Bulls. Bull Calves. Yearling, two-year-old Heifers, bred, and cows, due to freshen in spring for sale. 50 head in herd. L. E. CONNELL, Fayette, Ohio.

HOLSTEIN FRIESIANS—Bull calves. Herd headed by Canary Mercedes Boyal King. W. B. Jones, Oak Grove, Mich.

HOLSTEIN BULL CALF from two

HEREFORDS:—Both sexes and all ages for sale. Also Poland-China hogs. R. E. ALLEN, Paw Paw, Mich.

JERSEY BULL, CALF born May 12, '09. Dam gave 10,950 lbs. milk, last year test5#, Sire's Dam's record 10.600 lbs. in 10½ months, test 5.2#, The MURRAY-WATERMAN CO., R. 6, Ann Arbor, Mich

Northern Grown Jerseys. ROYCROFT FARM, Sidnaw, Mich.

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

JERSEY BULL 3 years old, gentle, sure stock gatter. St. Lambert, registered right every way. S. H. PIERSON, Goodrich, Mich.

FOR SALE-Jersey cow Golden Pedro's Finest No. 211079 A. J. C. C. Year record on first calf 8076 lbs. milk, 575 lbs. butter. Price \$700. Also fine bull calf from her Oct. 1, 1909, by Fred Cordegan No. 80153. J. S. BABTLETT, R. No. 10, Kalamazoo, Mich.

Pure St. Lambert JERSEYS and some nearly pure clare Sex, for sale, CLARENCE BRISTOL, Fenton, Mich. R. F. D. No. 5,



Register of Merit Jerseys. Official yearly P. F. MARSTON, Bay City, Michiga

LILLIE FARMSTEAD JERSEYS

We have some splendid young bulls for sale. Some of them are old enough for service. They are from cows with records of 300 to 425 pounds of butter last year. Write for description and prices.

COLON C. LILLIE, Coopersville, Mich.

Jersey Bulls, Gows and Heifers

DUROC JERSEY SOWS Choice individuals and popular blood lines. Inspection invited. Full information cheerfully furnished. If you cannot visit our farm at once write

BROOKWATER FARM, Ann Arbor, Mich. A. W. MUMFORD, Manager.

FOR SALE—FOUR registered SHORTHORN BULLES, old enough for service, all red, by Northern Champion, a son of Imp. Lovat Champion, who was grand sire-of champion carload lot of yearling Shorthorn steers at last International, JOHN SCHMIDT, R. F. D. 4, Reed City, Mich.

FOR SALE--10 Reg. Shorthorn Bulls. All good, reds and roans, from 12 to 24 months old, from the best of breeding at \$75 to \$125,each. Some of them Scotch and Scotch-topped, of the herd heading type. Also, young cows and heifers, all ages. Fifty head in herd. Farm—I'wo blocks from Lake Shore. Station. L. I. BIDWELL, Tecumseh, Michigan.

DAIRY BREDSHORTHORNS—No atock for sale at present. Visitors welcome. J. B. HUMMEL, Mason, Mich.

Shorthorn Cows and Helfers in calf. Also bulls strains. Prices low. ROBERT NEVE, Pierson, Mich.

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Delaine Ewes 20 registered Delaine ewes for sale bred to a \$100 ram to lamb in April cheap if taken soon. S.J. COWAN, Rockford, Mich.

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also registered Hornless National Delaines and Black top delaines. Romeyn C. Parsons, Grand Ledge, Mich

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SHROPSHIRE HALL STOCK FARM
Will import one hundred yearling ewes and 15 rams
in June for Michigan and the same for Boise, Idaho,
Branch of this Farm. Will make a fair price
yearling ewes or rams, also on some aged ewes with
learn a state, for 60 days. ambs at side, for 60 days. L. S. DUNHAM & SONS, Concord, Michigan.

130 Reg. Ramboillet Ewes for sale, descended from the best flocks and bred to a pure Van Homeyer and a ram sired by a Gilbert ram and for ported dam. All in perfect health. In lots to suft buy ers—none reserved. J. Q. A. Cook, Morrice, Mich.

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LARGE ENGLISH BERKSHIRES.

Have a fine lot of spring pigs, both sexes. The type for profitable pork production. Vigorous and strong and of best blood lines. Satisfaction guaranteed. F. A. BYWATER, Memphis, Mich.

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FOR SALE-BERKSHIRES—Two choice Sept. boar pigs, and a few fall glits, stred by Handsome Prince. A. A. PATTULLO, Deckerville, Mich.

HUPP FARM BERKSHIRES! WON 189 PRIZES IN 1909. Stock of both sexes and all ages for sale. Breeders of Guernsey Cattle, M. B. Turkeys, Barred Rock Chickens, Pekin Ducks. GEO. C. HUPP, Mgr., Drawer A Birmingham Michigan.

BERKSHIRES of the most type andstrains. C. S. BARTLETT, Pontiac, Mich.

NORTHERN GROWN BERKSHIRES. ROYCROFT FARM, Sidnaw, Mich.

Improved Chesters—Bred sows all sold. A for service. Orders taken for spring farrow. W. O. WILSON, Okemos, Mich. (Both Phones).

A DAMS BROS. Improved Chester Whites, Litch-field, Mich., won 125 premiums in '09. Hooking orders for bred sows; boars ready for service. Buff Rock, W. Orpington, W. Leghorn cook 'ls. Shorthorn bulls ready for service

PURITAN HERD CHESTER WHITES—None better. sows all sold. Orders booked for March and April pigs. WILL W. FISHER, Watervilet, Mich.

Duroc Jerseys—Fall piss of either sex for sale, also Buff Cochin chickens and eggs. M. A. BRAY, Okemos, (Ingham Co.) Mich.

DUROC JERSEYS CAREY U. EDMONDS, Hastings, Mich. DUROC-JERSEYS—50 bred and open sows, plenly of growth and quality. Boars ready for service. Prices right. Write J. C. Barney, Coldwater, Mich.

MULE FOOTED HOGS Allages t herd in the U.S. Five big herd Boars. JOHN H. DUNLAP, Williamsport, Onio

O. I. C. bred sows all sold. Have a few band. GEORGE P. ANDREWS, Dansville, Mich.

C. J. THOMPSON, Rockford, Mich. O. I. C.

30 P. C. Fall Pigs by two champion boars. Booking orders for weaned pigs by 16 different boars. WM. WAFFLE, Coldwater, Mich.

Prize Winning POLAND CHINAS. Japanese Pekin Ducks. Embden Geese and Buff Turkeys. Zach Kinne, Three Oaks, Mich.

P. C. SOWS Bred for spring farrow WOOD & SONS, Saline, Mich.

LARGE IMPROVED YORKSHIRES—September far-sex, each. Satisfaction guaranteed. If you want the most economical feeders possible, breed your sows to a Yorkshire boar. Yorkshires are sure to be the most popular breed of the future. nost popular breed of the future. COLON C. LILLIE, Coopersville, Mich.

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CONDUCTED BY COLON C. LILLIE THE CREAM SEPARATOR AND THE SMALL DAIRYMAN.

The question now asked by a great many Michigan farmers who are keping to, when it claims that you get more buta small number of cows is whether it will pay them to purchase a hand cream

I will, from my own experience, try to answer it. After using one for nearly five years and keeping accurate data of the results obtained, will say that the separator will for about nine months of the year remove about 15 per cent more cream from the milk than can be obtained by the shallow setting system and for the remaining three months, 25 to 30 per cent more, (this means during the hot summer months), and 10 per cent for the same nine months and 15 per cent for the same three months by the deep setting system where an abundance of ice is at hand and used. In addition to the butter-fat secured by the separator, creamery companies will pay enough more for separated cream than for gravity cream so that after reducing the butter-fat to butter by allowing the usual one-sixth, the butter will bring four to six cents per pound more than can be obtained for dairy butter when sold in the local market, where most farmers sell their butter when keeping only a few cows.

My deductions are these: Every farmer keeping three or more cows, rather good cows, should at once buy a separator which by use will prove itself capable, by the Babcock test, of skimming down to small fraction of one per cent of more than five cows are kept a machine that will skim 350 pounds per hour wilt be of sufficient capacity, but if more than five are likely to be kept a larger size will be more economical. It is safe to say that after using the machine one year and counting up the increased profits farmer will increase the number of cows and take better care of them and become an enthusiastic dairyman. Midland Co. O. W.

A BUTTER SEPARATOR.

I write you concerning a card describing the merits of a new separator, knowing that if it is a fraud you will expose it in The Farmer, and if it is what the promotors claim it to be you will inform us. They claim that more butter is produced from a given amount of milk or cream, that the butter will keep better, that the separation is more rapid than with any other separator, that no casein, albumin or impurity is left in the butter, etc. The principle of the machine is described by them as follows: "The milk is placed in the receptacle in the machine in which revolves the aerator and agitator. This is in turn attached to a tube through which the air is drawn from outside into the aerating chamber and thence through the milk and out again. The air and milk come into contact with each other in the aerating chamber under considerable pressure, thus assuring a thorough aeration of the milk. The centrifugal force of the revolving aerator and agitator throws the milk out to the outside of the receptacle and at the same time drives the air through it. These two actions combined release the particles of butter in granular form and at the same time never breaking them."

Chippewa Co. E. Anderson. I never heard of this butter separator the fore and consequently know nothing of the fore and consequently know nothing the fore the service of the sufficient of the sufficient of the sufficient of the sufficient of the same time never breaking them." I write you concerning a card describing

I never heard of this butter separator before and consequently know nothing about it only from information contained in the circular, and from this description I am not satisfied that it will do what the circular says. It would seem practically impossible for so simple a constructed machine as this circular claims, to completely separate the butter-fat from the milk in five minutes and this in the form of sweet butter. Of course, this idea is not new. In fact, the butter extractor was invented before the centrifugal separator, or soon afterward, but it never became popular for the reason that people like ripened cream butter, or sour it removed practically all of the milk and 16.3 per cent of carbohydrates, and turned out nothing but the thick butter- .10 per cent of fat, while oil meal confat. Then the attempt was made to ripen tains 28 per cent protein, 40 per cent of this butter-fat by putting in starter. The carbohydrates, and 2.8 per cent of fat. trouble of it was, however, that so much Taking the chemical analysis as a basis

in using the starter in this way, that the butter did not keep well. This machine probably never will be popular. The butter separator explained in this circular claims to take all the butter-fat out and leave no caseine. This I can hardly bepossible without seeing it actually demonstrated, although I do not say that it cannot be so. The machine, however, claims more than I would think it ought ter out of a given amount of milk than you would in the old way. Now, if in the old way by running the milk through a centrifugal separator and taking out all of the butter-fat, practically, and by churning this cream we get an exhaustive churning or, in other words, all the butter, how are you going to get any more if we get it all, or practically all. It would simply be impossible and so I would say that the claim is exaggerated. But not knowing anything about this wonderful machine except the brief description in this circular perhaps I ought not to criticise it. I should, however, want to see personal demonstration of its practicability before I put any money into it.

A PERMANENT PASTURE ON WET

I have a four-acre pasture lot that has nearly run out. I would like your advice on what kind of seed would make a good pasture and when and how to sow it. This lot is a sandy soil and is quite wet in the spring of the year, as about an acre of it is muck.

Barry Co. D. V. H.

If the grass is practically run out on this pasture field, of course the only way to get grass to grow again is to plow the field and prepare a seed bed and seed it over again to permanent grasses. If the land is very wet for any considerable length of time in the spring, it will be butter-fat left in the skim-milk. If no difficult to get any of the approved tame grasses to live upon this sort of land. They will stand wet for a few days but any prolonged period of a saturated soil will destroy the tame grasses. The grasses best adapted to wet land would be red top, timothy and alsike clover, and if these grasses would not remain permanently upon the land, then it is too wet and should be drained in order to make a pasture. If the land was not too wet, I would suggest mixing some red clover in with the grasses, but if it is too wet this would not do at all. With what knowledge I have of the soil I would say that four quarts of alsike clover, two quarts of red top and two quarts of timothy per acre would make a good seed for a permanent pasture on this sort of

INSIDE FINISH OF A CEMENT BLOCK SILO.

Last year I built a cement block silo 40x14 ft. and covered the inside with two coats of liquid tar, but feed does not keep good around outside. Please tell me what would be best to cover inside with to would be best to preserve feed. Monroe Co.

If a cement block silo is plastered on the inside with rich cement mortar, mortar made from fine sharp sand, two parts sand to one part of good Portland cement, there will be no trouble about the ensilage keeping. If the coal tar was put on thick enough so that it fills up all the crevices, I do not see why this would not answer for a certain length of time, but I am inclined to think the tar was put on too thin, but I would expect the cement mortar to be much superior to the tar. Had the cement mortar been put on first and then the tar onto that, it would make still better job; but it is usually not necessary to put the tar on with the cement mortar.

FOOD VALUE OF POTATOES, COM-PARED WITH OIL MEAL, ETC.

Would like to know the feeding value with oil meal, bran r corn for milch cows. Kalamazoo Co. W. H.

The food value of potatoes compared cream butter, and butter made from sweet with oil meal, based on the chemical ancream placed upon the market lacks the alysis of the two substances, is not very flavor that most people like and has never high. We ordinarily figure the value of become popular. At the national dairy a food substance by the per cent or show in Chicago in 1908 there was a but- amount of protein which it contains, beter extractor where sweet milk was put cause most all foods which we grow coninto the machine and the cream came out tain an excess of carbohydrates, the as gathered butter. It was in some ways protein being the important element which quite a wonderful machine and yet the we have to provide, and which is liable principle of it was very much the same to be deficient. Potatoes have a chemical as the centrifugal separator, except that analysis of .9 per cent of protein, cream was incorporated with the butter of valuation, one ton of oil meal would be



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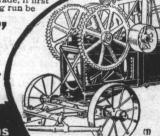
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as valuable as 31 tons of potatoes, and in the same manner, one ton of wheat bran would be equal to 13 tons of potatoes and one ton of corn would be equal to nearly nine tons of potatoes. Potatoes contain about the same analysis as corn silage, which consists of the green corn plant containing its natural juices, and potatoes are a food of the same nature as silage, being of a succulent character. There is no question but that, with no other succulent food in the ration the succulency of potatoes should figure as of some value, because a succulent food in the ration seems to have a good effect upon the digestive apparatus of the animal, causing the stomach and the alimentary canal to secrete larger quantities of digestive fluids, and consequently enabling the animals to digest more economically the dry food in the ration. At the price potatoes are now selling at throughout the greater portion of the state, I believe that a man with a good herd of dairy cows could well afford to feed a portion of them to his cows. They are worth present prices for food for the

THE LATH AND PLASTERED SILO.

Read your article in The Farmer about the cement plastered sile, in which I am very much interested. We have a lot of logs—elm, maple and ash—which are going to be sawed next month or in May. Now, if it is not asking too much of your kindness I would like to know: 1, what is best to use, ½ inch by 2 inch or % inch by 2½ finch lath? 2, will elm 2xibe all right or will they warp too much after sile is filled? 3, will it be cheaper for me to plaster outside if I have lumber enough to clapboard it? If my lumber is not fitted for that purpose I could buy pine or hemlock quite reasonably. Have to haul sand 3, and cement 6½ miles. 4, would it hurt the lath to pile them up with air space between them and leave them until August, for I will not have time to build it until then?

Ottawa Co. B. V. D.

B. V. D. Ottawa Co. Taking these questions up in their order, I think that lath cut three-eighths of an inch thick and two or two and onehalf inches wide would be better than only one-half inch thick. It would make a stronger sile. With three-eighths inch lath there would be no trouble whatever about the strength of a sile. If this elm lath could be used and put on before they get too dry so they could be sprung around to fit the studding, it would be all the better. Elm lumber makes a particularly tough and strong material for building purposes.

Elm 2x4's would, I believe, be all right for the studding. Of course, if you don't use them soon after they are sawed, they ought to be piled up in such a way that they will not warp any more than, possible. After you get them into the silo and get the lath on the inside and clapboards on the outside, or even lath on the outside, I don't think there will be any danger about their warping. In fact, I know of several lath and plastered silos built out of elm lumber and the elm did not warp.

I should think it would be a little cheaper to lath the sile and plaster it on the outside than it would to clapboard it, because very cheap lumber could be used for the lath and cement mortar would cost very little. However, I was talking with a party the other day in Ionia county who had plastered a silo like this on the outside, and he said he had trouble in having the plaster hold to the lath on the outside of the sile, while on the inside of the silo there was no trouble at all. He had an idea that the plaster would not stay as well on the outside as on the inside. I cannot understand why this is so. If he used just as good mortar and the cracks were not so far apart between the lath that the mortar wouldn't cling to them, I cannot see why it will not stay on the outside. In constructing modern buildings now, the partitions are made of cement, simply plastered on to a metal form, and these partitions are very solid and durable.

I should think the lath would be less apt to warp if they were piled up close together until you wanted to use them. If you pile them up with an air space between, and they dry out, I think that they will warp out of shape more than they would if piled up close together.

FREE BOOK ABOUT CANCER.

The Leach Sanatorium, of Indianapolis, Ind., has published a book on cancer, which gives interesting facts about the cause of cancer; tells what to do in case of pain, bleeding, odor, etc., instructs in the care of the patient, and is in fact a valuable guide in the management of any case. The book is sent free to those interested who write for it, mentioning this

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of Agriculture, Richmond, Va.

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FACTS ABOUT MILK.

milk as human food may be gained from the fact that about one-sixth of the total food of the average family is furnished by it and its products.

Milk contains bacteria of many kinds conditions of milking, and, as they are greatly increased with dirty and careless handling, cleanliness in all matters perbe too strongly insisted on. Disease germs, notably those of typhoid, diphscarlet fever, and tuberculosis, may also be carried in milk, so that the purity of the milk supply is of vital importance to every family and community.

The problem of keeping milk sweet is one of checking the growth of the bacteria; and as they are inactive at a temperature below 50 degrees F., milk should be kept in a cool place. Two common methods for preserving milk are pasteurization and sterilization. In the former the aim is to apply heat in such a way as to kill most of the bacteria without producing undesirable changes in the milk; in the latter, to apply enough heat to kill all the bacteria, but with the least possible undesirable change. Chemical pre-servatives in milk are considered injurious to health, and are forbidden by pure-food legislation in many states.

Mother's milk is best adapted by nature to the nourishment of infants. Cow's milk is the most common substitute, and when necessary is artificially modified to make it resemble human milk.

The value of milk for adults is in combination with other foods; not as a beverage merely, but to supply in part the material needed for the body.

Unless exceptionally high prices are paid for it, milk is fully as economical a source of nutrients as other animal foods, but dearer than most staple vegetable products. Milk, however, requires no preparation, has no waste, and is more thoroughly digested than most vegetable foods. As a source of protein, the most expensive of the nutritive ingredients, it especially economical. Skim-milk. which is whole milk minus part of its fat, and which costs only half as much as whole milk, furnishes protein about four times as cheaply as beef. Foods prepared with either skim or whole milk are much more nutritious than those prepared

THE HEIFER'S FIRST CALF.

Is there any valid reason why a heifer's first calf should not be a good animal to keep for stock purposes? I find an opinion prevails among farmers here that it is not, but can find no good reason for this. I am new in the business. I purchased two full blood Jersey heifers, bred one at 13 months and one at 15 months to a registered Jersey bull. They have both dropped heifer calves. I am desirous to increase my number of Jerseys. If not advisable to keep these heifer calves I would like to know why.

Otsego Co. "Scott."
There is absolutely nothing in the idea.

There is absolutely nothing in the idea that the calf of a heifer is not worth raising. If the heifer was well grown and the calf fully developed, it should contain all the vigor that growth and health can impart to it. I would as soon have the calf from a good, well developed heifer as from an older cow. Jerseys are precocious and will do to breed to drop their first calves at two years of age. I would not care to breed them younger than this; but feed them liberally and give them good care.

ENSILAGE HEATING IN WINTER.

I built a silo last fall but did not get it completed until my corn was overripe. Some of the corn was down badly and the stalks dried up, also frosted some, but was well eared, and of good quality. We used a large amount of water while filling, and after. Now, for the last two months the silage in the center heats considerable, but not the outside. Should it do this if keeping all right? I was afraid that it would be all spoiled when I got further down. Would it do it any good to put water on now, and if I should want to save some over for summer use, do you put water on when done feeding? If so, how much? I hear quite often about ensilage not keeping good around here; there must be a cause for it, as I have what I think is a splendid silo. I also think I should have good silage. My silo is studded up, cement lined, tarred felt and galvanized sheet metal outside and roof. I built a silo last fall but did not get roof. Tuscola Co.

E. J. NOWLIN. It is unusual to have silage heat so long gravel for cement, the silo can be built

and the silage was all right when fed. Mr. Nowlin does not say the silage is An understanding of the importance of mouldy as it sometimes gets if the corn is too dry when filling. I am inclined to think that he used plenty of water when filling and that that is one cause of the silage staying warm so long. My opinion Milk contains bacteria of many kinds is that the silage will not spoil but will and in varying numbers. They cause the come out all O. K. I never knew this to souring of milk as well as the ripening of fail when the silage generated considercream and cheese, and produce many able heat, if sufficient water was used on other changes in the appearance and fla- the dry stalks. I think by the time you vor. The number present in freshly get ready to leave your silo for summer drawn milk varies enormously with the feeding, it will be difficult to get the oats feeding, it will be difficult to get the oats to grow sufficiently to prevent decay of the silage. This would have been practical last fall when the silo was first taining to the milking and marketing of filled and you had plenty of heat and milk and keeping it in the home can not moisture, but I apprehend that by May 15 you will have no way of making the oats grow. It would be a good plan to cover the silage with chaff or cut straw, say four inches deep and wet thoroly, or you can wet the silage and put nothing on top. The probability is that the silage will not decay more than four or five inches at the most.

BLACK PARTS IN JERSEYS.

I saw in your paper some time ago that in buying a Jersey, see that she has a black tongue and switch. Is it possible for a thorobred Jersey to have a white tongue and switch? I would like to know for I am about to buy a so-called thorobred Jersey cow with a white tongue and tail. tail. Osceola Co.

B. P. A black tongue and switch is not necessarily a characteristic of a pure-bred Jer-Many of them have white tongues, also white hair in switch. White is liable to occur on any part of the body or legs, quite often on the belly and hind legs, and also on the fcrehead. Many of the best and most productive Jerseys are broken in color. Some breeders prefer solid color with black points, but the best dairymen pay little or no attention to such things. They are really of no importance whatever.

WHAT GRAIN TO FEED WITH ENSI-LAGE AND CORN FODDER.

Please give me a balanced ration for cows fed on silage. I have fed with the silage sugar beet feed and buckwheat bran, also gluten feed. My silage is rich for the corn was ripe and went 100 bu. to the acre. Now the cows look well but do not give much milk. Had ensilage ought to freeze from one to one and a half inches deep when it is zero weather? Van Buren Co.

Give the cows all the ensilage and hay

Give the cows all the ensilage and hay and corn fodder they will eat up clean twice each day. I suppose by sugar beet feed is meant dried beet pulp, and by buckwheat bran is meant what is left of this grain after taking out the flour, that is, the bran and middlings are left together. If this is correct, then I would mix the grain in equal parts by weight and feed as many pounds per day to each cow as she produces pounds of butter in a week. For instance, if a cow produces seven pounds of butter-fat in a week, give her seven pounds of grain a day in two feeds, half in the morning and half in the evening on her ensilage.

PROPER SIZE FOR SILO.

I would like to ask a few questions in regard to building a silo. I will keep 20 head of cattle, four head of horses and colts and 18 sheep. How large should I build? I have hemlock enough to build it. Should I build it of hemlock? If so can I spring 12 ft. patent lath and 12 ft. novelty siding. I that of building 12x30 ft. and 8 ft. in the ground. Please tell me if it will pay me, as I am in debt, and about how much will it cast?

Osceola Co.

For this amount of stock I would build.

For this amount of stock I would build the silo about 14 or 15 feet in diameter and then of good depth, 36 to 40 feet deep. If you get it higher than you need at first, it will come handy later for, in all probability, you will increase your

I dont think you can spring hemlock boards for lath without breaking. If only one-half inch thick, perhaps you can. Dont get the lath boards too thin. You want them of sufficient strength to make a strong silo. The one-half inch siding will spring on the outside all right.

I would not put the silo so deep in the ground. It will be too hard work to get the ensilage out. It can go in the ground two or three feet, but not more, and I would prefer to have it on a level with the ground, and get capacity by going up in the air. You have power to elevate it when you fill, but it must be pitched out by hand.

If you have your own lumber and after filling, but I have had the center of almost entirely by yourself at a small a silo stay warm for nearly three months outlay of cash and hired help.

We can prove to you that the IOWA DAIRY SEPARATOR is positively the best separator made — that it stands in a class by itself — that there is as much difference between it and other separators as there is between silk goods and cotton goods, or between day and night: THE IOWA IS ABSOLUTELY THE CLOSEST SKIMMER

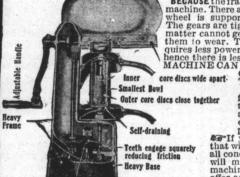
BECAUSE the double core gives a larger skimming surface in our small bowl than in the big bowl on any other machine. The disc on the inner core are wide apart, giving a free and open passage for he thick cream. In the outer part of the bowl, where the last particles of butter fat are skimmed, the discs are close together, dividing the milk in very thin layers, thus giving the largest possible skimming surface. WE SELL YOU THE IOWA SEPARATOR ON A POSITIVE GUARANTEE THAT IT IS THE CLOSEST SKIMMER MONEY CAN BUY.

THE IOWA SEPARATOR IS THE LIGHTEST RUNNING MACHINE HE IUWA SEPAKAIUK IS INC LIGHTES I KUNNING MACHINE
BECAUSE It has the lightest bowl of equal skimming capacity of any machine,
and you know it takes less power to keep 3 lbs. in motion than 6 lbs. Our gearing
is so arranged that it does away with the old worm principle used on other separators. Note the slant given the wheel which drives the bowl. This eliminates the
friction of the old style worm wheel. Each bearing has a reservoir of oil, in which
no dust or dirt can collect. This is different from any oiling system used in any other
separator. The IOWA MACHINE HAS PROVEN IN ALL EXPERIMENT
STATION TESTS TO BE THE EASIEST RUNNING MACHINE MADE.

THE IOWA IS EASIEST AND QUICKEST CLEANED

BECAUSE it is the only machine in which the skimming device can be washed by
centrifugal force. The washing is done by simply running water through the bowl. It
has a self-draining bowl and all milk drains out of it at the end of the run. The skimming device consists of only two pleces. The heaviest piece a woman has to lift in
washing this machine weighs only 3 lbs., while in other machines she has to lift from
10 to 15 lbs. THE IOWA SEPARATOR IS CLEANED IN JUST ONE-HALF THE
TIME IT TAKES TO CLEAN ANY OTHER MACHINE.

The Iowa is the most durable.



The lowa is the most durable.

BECAUSE the frame isheavier than that of any other machine. There are no overhanging bearings, every wheel is supported by a bearing on each side. The gears are tightly enclosed so that dust or other matter cannot get to them to clog them and cause them to wear. The IOWA bowl being lighter, requires less power to maintain its proper speed and hence there is less wear on the gears. NO OTHER MACHINE CAN LAST SO LONG BECAUSE NO OTHER MACHINE CONTAINS THE ABOVE FEATURES.

We have the largest separator factory in the world and it is a fact that you cannot buy a separator anywhere at any price that will equal the IOWA in all the above points.

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points.

points.

points.

points.

points an find any other separator that will skim to its rated capacity under all conditions as closely as the IOWA, we will make you a present of one of our machines. There are no strings to this offer and it is not limited in any way.

points points.

Write us before you buy and we will give you some rprising inside infermation on separators. lowa Dairy Separator Co. 108 Bridge St.



Wm. Galloway President

Proposition which is Between the Manufacturer

and the

Name

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Cut or tear out this coupon—or write a postal or letter—and send your name to me before you buy any kind of a cream separator. Keep \$25 to \$60 cash in your own pocket, in savings, and get a better separator than you would pay others \$85 to \$110 for—you be the judge and jury. I promptly quote you prices direct from my factory to you also send you my big, free separator book and special proposition.

......

William Galloway Company, of America 643 Galloway Station, Waterloo, Jowa

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By the Farmers and Dairymen of America

Ike a \$5,000 automobile, and all other modern machines.

EVER BEFORE in the History of High-Grade Separators could you buy the latest standard, highest-grade machine like the Galloway at such a low direct price as I can make to upward, freight prepaid to you on 90 Days' Approval Test and 20 approved.

—Any capacity, from 200 to 950 pounds per hour, according to your needs, and I'll save you from \$25.00 to \$50.00 on the price.

—The only Separator whose gearing runs in a "Bath of Oil" titself.

—The sale Separators

Save \$25

like a \$5,000 automobile, and all other modern machines.

The only Separator that automatically oils itself.

The only Separator into which you can pour oil at the top once a month from your oil jug or can, and have it oil itself without danger of running dry, or ruining itself like others. This feature alone worth \$50.00 more than separators built the old way, Cost nothing extra on Galloway,

No oil cups to remember to fill or turn up twice a day.

Dust-proof—Danger-proof—All gears enclosed—Simbell the old way, Cost nothing extra on Galloway.

Has the only revolving supply tank. Worth \$15.00 more on any machine. Costs nothing extra on a Galloway.

Easiest to clean and the few parts come out easy and can't get back out of place.

Easiest to run—high crank—low tank. With no high lifting and no "back-breaking" cranking.

Gets the finest quality cream, and all of it—no lumps or churning, as Nature's true principle is followed without forcing either the milk or cream the wrong way up or down.

Skims closest in any climate or season, no matter whether your milk is warm or cold.

Is as handsome a machine, compact and substantial as you ever saw or could find. Beautiful finish.

Let us send you all the facts, told in our New Cream Separator Book. Let me write you personally and send you this Big, New Separator Book of mine—postpaid—Free, so that you and your wife and the boys and girls can talk it over and then try one of my separators under my easy plan for you to do it.

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Wm. Galloway, Pres., The Wm. Galloway Co., of America

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WE GUARANTEE to stop THE MICHIGAN FARMER immediately upon expiration of time subscribed for, and we will pay all expenses for defending any suit, brot against any subscriber to The Michigan Farmer by the publisher of any farm paper, which has been sent after the time ordered has expired, providing due notice is sent to us, before suit is started.

due notice is santial.

Avoid further trouble, by refusing to subscribe for any farm paper which does not print, in each issue, a definite guarantee to stop on expiration of subscription.

The Lawrence Pub. Co.,

Detroit, Mich.

DETROIT, MARCH 19, 1910.

OFFER TO NEW SUBSCRIBERS.

We are making a special offer of the Michigan Farmer four months for 25 cents and giving with it free one of our Michigan Farmer pocket account books. This offer is to new subscribers only and is made in order to get the paper introduced to new readers. Should the trial subscriber desire at any time during the four months to renew for a year or more, he may do so and the 25 cents will apply on his renewal, and he will also be entitled to any of the free premiums allowed for the period he renews for.

The account book we send free, postage paid, is 64 pages, has record for hired help, daily egg record, cash receipts and expenditures; in fact, it is a complete farmers' account book and retails for 25 cents.

Readers, tell your neighbors. We also want agents.

CURRENT COMMENT.

Prospects. War, a careful study of

will prove profitable for every farmer, since there is no class of farm live stock into pork to the extent which they have so wide in its range of adaptability to farm conditions, everywhere in the country, as the hog. The hog is a factor in stuff for home as well as foreign conthe production of every farm, but evi- sumption, and to the many new demands dently at present to a less extent than is which are made upon the crop for manudesirable, either for the farmers them-facturing purposes. But in this situation selves or for the consuming public, who there is a lesson for Michigan farmers must look to the farm for the source of which should not be allowed to pass untheir supply. ing that in a state like Michigan, which the country than has been the case conditions it does not produce corn enough to satisfy recent years, and every indication points fall off materially during an era of high throughout the whole of the coming marrecent years. But one would scarcely directed toward increasing the hog sup-Michigan. It is, then, a matter of surthe principal corn belt states similar conditions are found to exist.

The statistical report of the Illinois ber 1, 1909, shows this to be the case in be grown with profit upon Michigan Illinois. This report shows the number farms, and with modern methods of proof hogs on the farms of that state, at the duction, including the judicious use of

time of taking the assessment of farm property in 1909, to have been 1,480,269, of which it is estimated that 83 per cent were marketed, or a total of 1,228,629, the average weight per head of those marketed being 213 lbs. By way of comparison with former production in Illinois, we find that in the year of largest production, viz., 1888, there were 4,035,733 hogs on Illinois farms at the date of the annual assessment, of which 3,349,646 were marketed at an average weight of 233 lbs. Following that date, there was a gradual decrease in the number of hogs maintained upon Illinois farms to the present time, with a few exceptions when the number went up a few thousand for two or three years, but taken by five year periods there has been a steady reduction in the number of hogs maintained upon Illinois farms since that date, which marked its highest production of hogs. These statistics, being the result of an actual enumeration of the hogs in the state at the date of taking the annual assessment, would seem to come nearer to the true facts regarding the hog population than a mere estimate such as other statistics are based upon.

The statistical report published in the Crop Reporter for February, 1910, estimated that there were in the state of Illinois on January I, of the present year, 3,772,000 hogs, while on January 1, 1909, the figures from the same source gave an estimated number of 4,438,000 hogs, which shows a considerable falling off in the estimated number of hogs on the farms of Illinois between Jan. 1, 1909, and Jan. 1, 1910. The fact that actual enumeration of hogs in the spring shows a much smaller number than the estimated number in the fall, is accounted for largely by the fact that the year's crop had not been all marketed on the latter date and, of course, the latter figures are based upon estimates rather than upon an actual count of the hogs. In Iowa the estimate for January 1, 1910, was 6,485,000 and for 1909, 7,908,000. In Indiana, January 1, 1910, 2,578,000, and on January 1, 1909, 3,033,000. In Kansas on January 1, 1910, 1.942 000: on the same date 1909, 2.397,000 In Nebraska on January 1, 1910, 3,201,000 and on the same date in 1909, 3.904,000. Unfortunately we have not at hand sta tistics showing an actual enumeration of the hogs in other corn belt states mentioned at the date of the spring assessment, but the decreased number on hand according to the estimates for January 1, 1910, in all of these states would seem to show conclusively that the breeding herds, which would be represented by such an enumeration, have decreased almost proportionately with those of Illinois, since it is certain that surplus hogs have not been marketed in the past year in sufficiently increased numbers to have made this comparison show anything less, as the receipts of hogs at all of the big markets have been smaller than usual, and, in fact, so small that the packers have found it impossible to accumulate a surplus of provisions and have been compelled to pay the extremely high prices which now prevail for such hogs as come to market at a season of the year when there is a smaller demand for pork and pork products than any other time during the year.

The reason for this great falling off in With hogs bringing the production of hogs in the corn belt Hog Prices and the highest prices ever states is no doubt the fact that corn known since the Civil prices have been so attractive that corn belt farmers have chosen to get quick the situation and analysis of the cause returns from their crop by marketing it as raw material, instead of converting it formerly done. This, in turn, is due to the increased demand for corn as a food-To the student of present heeded. Unquestionably the present seais not particularly surpris- son's pig crop will be smaller throughout her needs, the production of hogs should to a continuation of high prices for hogs prices for corn such as has prevailed in ket year. In fact, if every energy were look for like conditions in corn belt ply, it would be impossible to again reach states, where corn is the principal staple a normal production, so as to bring margrown for market, instead of being grown ket receipts up to a normal basis, before almost wholly for feed as is the case in the fall of 1911, so that barring any unlooked for complications, good pork prices prise that in at least one, if not all of may confidently be predicted for at least two years, since stocks of provisions can hardly increase with the scant marketing which is sure to obtain during the coming State Board of Agriculture, issued Decem- year. Without question, more hogs could

forage crops; it will prove as easy to make two hogs grow where but one grew before upon our farms, as to make "two blades of grass grow, where but one grew before." And while we would not advise any farmer to overstock during a season of high prices, the doubling of the hogs maintained upon Michigan farms would not involve overstocking in any sense of the word, and would undoubtedly prove a source of increased profit in the near future.

HAPPENINGS OF THE WEEK.

Foreign.

The United States government is demanding of Canada the same tariff rates that the Canadian government is extending to France. Recently a commission was sent to Ottawa to adjust the tariff relations on this basis. The Canadian officials did not see their way clear to grant the demands. As a result the Washington representatives have returned to this country and are now in consultation with President Taft regarding the situation. The Canadian officials are aware of the gravity of the situation since they realize that if the demand is not a way realize that if the demand is not are they realize that if the demand is not are they realize that if the demand is not are they realize that if the demand is not are they realize that if the demand is not are they realize that if the demand is not are they realize that if the demand is not are they realize that if the demand is not are they realize that if the demand is not are the struction.

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will apply. The studened can only flauragurate a trade war, but just at this time such a conflict would be disadvantageous to both countries, but especially to Canada owing to the recent opening of her large western territory.

As the result of a riot started by an attempt of Turkish parents to recover their daughter who had been married to a Bulgaria official, 15 persons were killed and 30 injured at Rustchuk, Bulgaria. Some of the leading residents of the town were among the victims.

Khartoum is celebrating the coming of Cot. Roosevelt who is returning from his African hunting trip. The Colonel and his son, Kermit, will be met in the city by Mrs. Roosevelt and daughter. The city has gone to much expense and made extended preparations, that the event might be properly celebrated.

Timothy Harington, a member of the British house of commons and three times lord mayor of Dublin, died in London, Sunday.

The returns thus far from the Brazilian elections held March I indicate that the electors have selected Hermes Fonseca as chief executive of that country.

The anti-American feeling in Columbia appears to be subsiding according to the most becent reports from Begota. The trouble there with the tramway company was largely a personal matter which promises to be settled in the courts.

The Cuban veterans of the war of Independence, of Havana, have extended to Colonel Roosevelt an invitation to visit Cuba before he returns to the United States.

James A. Patten, the American speculator and recent wheat and cottfon king.

States.

James A. Patten, the American speculator and recent wheat and cotton king, did not receive a hearty welcome in a recent visit to the cotton exchange in Manchester, England, his presence almost starting a riot. His reception at other English cities was not so embarrassing.

J. P. Morgan, the American capitalist, is about to submit to an operation in Italy.

An Aztec idol promounced to be figure of the goddess of the failing harvest, was unearthed at Mexico City by workmen who were excavating for a

race war threatens Palmetto, Fla. re two white men were killed b

where two white hen were kined by negroes.

The Russian government has shown itself more liberal than the duma regarding the disabilities against Jews in that in country. Everywhere the Jews are handicapped because of their race proctivities ple and the duma which is supposed to reflect for the spirit of the people does not appear to modify the attitude which a more we aristocratic government took when a leg- in

has been under advisement by the "committee of 50," of Detroit, has been adopted by that committee and will now be submitted to the common council of the

The hotel Ericks at East Jordan, Mich., burned Tuesday morning, causing a loss of \$8,000.

MICHIGAN CROP REPORT.

Wheat.—In answer to the question, "Has wheat during February suffered imjury from any cause?" 134 correspondents in the southern counties answer "yes," and 208 "no;" in the central counties II answer "yes," and 146 "no;" in the northern counties 2 answer "yes," and 141 "no;" in the upper peninsula 22 answer "no" and in the state 147 "yes," and 1517 "no." Several correspondents in the southern four tiers of counties are of the opinion that wheat has been severely damaged by ice.

Snow protected wheat in the southern counties 3.83 weeks; in the central counties 3.94; in the northern counties 3.98 weeks; in the upper peninsula 4.00 and in the state 2.99 weeks.

Snow protected wheat in the southern counties 3.93 weeks; in the central counties 3.91; in the northern counties 3.98 weeks; in the entral counties 3.98 weeks; in the upper peninsula 4.00 and in the state 3.89 weeks. The average depth of snow on February 15th in the southern counties was 7.64 inches; in the central counties 10.70; in the northern counties 20.07; in the upper peninsula 23.56 and in the state 11.62 inches. On the 28th the average depth of snow in the southern counties was 3.88 inches; in the central counties 8.43; in the northern counties 21.55; in the upper peninsula 23.63 and in the state 9.76 inches.

The total number of bushels of wheat marketed by farmers in February at 140 flouring mills is 198,671 and 127 elevators and to grain dealers 172,279, or a total of 370,950. Of this amount 296,926 bushels were marketed in the southern four tiers of counties, 62,333 in the central counties and 11,686 in the northern counties and upper peninsula.

The amount of wheat yet remaining in possesion of growers is estimated at 4,000,000 bushels. Eighty-seven mills, ele-

possesion of growers is estimated at 000,000 bushels. Eighty-seven mills,

ooo,000 bushels. Eighty-seven mins, elevators and grain dealers report no wheat purchased in February.

The average condition of live stock in the state is reported as follows, comparison being made with stock in good, healthy and thrifty condition: Horses and sheep 95, cattle 94 and swine 96.

NATIONAL CROP REPORT.

workmen who were excavating for a water plant.

National.

Toledo, Ohio, is having difficulty in collecting the money to pay for work done to free the Maumee river from ice the past winter to prevent floods.

The car ferry which sank in Lake Erie off Port Bruce, last fall during a storm, when 32 men were drowned, has been leeated 14 miles from Port Stanley.

French aviators are sending attorneys to the United States to defend them in suits brought by the Wright Brothers for infringement of inventions claimed to belong to the American aviators.

President Taft is favorable to the plant Havana harbor.

The big reservoir belonging to an irrigation concern at Judesburg. Colo., bruke loose last week, washing out about two miles of the Union Pacific railroad tracks and doing \$150,000 worth of damage.

Senator Tillman, of South Carolina, who was recently stricken with paralysis, shows slight improvement, according to the most recent report of his condition.

The business men of Omaha are protesting against the announcement that the Wabash railroad intends to increase railroad rates for meat between meat shippers of Omaha and chicago. It is claimed that the new rates will discriminate between meat shippers of Omaha and those of Kansas City in favor of the latter.

Successful flights were made by Paulhan in his aeroptane at New York the past week in which a speed of 70 miles an hour was attained and an altitude of 400 feet was reached.

Dr. Frederic A. Cook wires from South America that he expects to arrive in this country about the first of April.

Dr. Frederic A. Cook wires from South America that he expects to arrive in this country about the first of April.

The quantity of oats in farmers' hands on March I, 1910, is estimated at 36.1 per cent, equivalent to 363,159,000 bushels, of last year's crop, as compared with 34.6 per cent (278,847,000 bushels) of the 1908 agreement can be reached between the operators and the workmen.

During the past week a strike has been on at the paper mills at Corinth, N. Y. The mills have been protected by the state militia and an effort to start the mills with strike breakers is about to be attempted.

A race war threatens Palmetto, Fla., where two white men were killed by

CROP AND MARKET NOTES.

Kalkaska Co., March 12.—Winter still in evidence. Southern slopes and exposures begin to show bare ground, but plenty of snow in roads and highways for sleighing yet. Did not have a thaw to settle snow this winter until the first week in March; 18 inches to two feet deep in the woods now and heavily crusted.

Magazine Section

LITERATURE POETRY HISTORY and **INFORMATION**



The FARM BOY and GIRL SCIENTIFIC and MECHANICAL

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

WAYNE'S TRIUMPH at FALLEN TIMBERS.

BY CLYDE A WAUGH.

HIS is a mighty historic place when you know it," said the motorman, as the majestic Maumee, the old town which bears the same name, historic Fort Miami, and the grass-covered outlines of he added, "It's a mighty crooked road, ain't it?" And I, looking up at the point

from whence the British batteries had

poured leaden hail upon Fort Meigs in the

memorable seige of that place, the earth-

a broad sweep of his arm took in crank three notches and continued, that the hero of Stony Point, Gen. An-"There was a mighty big Indian fight thony Wayne, called by the Indians, "the there once. Hundreds of 'em killed. But chief that never sleeps," defeated a force we beat. After the fight they found that of two thousand warriors, fortified in a the walls of Fort Meigs. My opinion co- Chief Turkey-foot was dead. They position naturally favoring their mode of incided with that of the motorman. Then thought so much of him that they put warfare, with a force of less than nine that rock there-chiseled the turkey's hundred Americans, in a battle which setfoot on it to remember him by." The tled Indians disputes in Ohio for all time. controller went over three more notches. "Had an awful time about that stone a the Ohio tribesmen, the government, in few years ago. You know when they was

After making many efforts to conciliate desperation, sent Gen. St. Clair after them, St. Clair resembled the British General Braddock, and was surprised and defeated in the same manner. Gen. Wayne was then given St. Clair's command. In July, 1794, he built Fort Defiance, several miles up the river from Presque Isle hill, upon the site now occupied by the city of Defiance.

Wayne was an example of ceaseless vigilance. Indeed, he merited the name the Indians gave him. If the General slumbered he made sure that his outposts were awake. Indeed, many a night did he surprise sleepy sentinels as he made sure of his guards by making the rounds of the sergeant of the guard. Scouts scoured the country in advance of the army. He profited by the examples of his predecessors and camped in a hollow

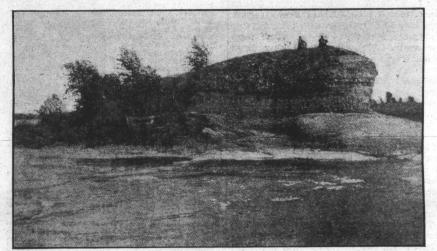
The French visited the valley in the early part of the seventeenth century, and hence thru their long association with these people they had gained considerable agricultural knowledge. The fertile valley needed but their hands to turn it into vast fields of corn and other vegetables. The Indians had also planted great peach down the river for forty or fifty miles.

When Wayne came to Fort Defiance the corn was in the roasting ear and the troops grew fat as a result of their for-From Fort Defiance the cavalry ays. scoured the country in every direction,

stood far within the territory which that treaty granted the Americans. Besides being strongly built it was equally well equipped, mounting some ten large guns in addition to mortars. The attitude of the British toward the agreement which they signed was displayed when they sent 450 regulars to garrison the place. Without a doubt it was constructed solely with the purpose of helping along and furnishing arms to the hostile Indian confederacy which was then being formed against the Americans.

After receiving the American commander's offer for peace, a council of the chiefs was called. At this council three of the most notorious renegades of the western border were present. McKee, Elliot, and the infamous Simon Girty urged the Indians to battle. Little Turtle, of the Miamis, and Blue Jacket, of the Shawnees, were in command of the Indians. Little Turtle knew the Americans were advancing against them and was averse to fighting. "We have beaten the enemy twice under different commanders. cannot expect the good fortune to always attend us," he argued. "The Americans are led by a chief who never sleeps. The day and the night are alike to him. During all the time he has been devastating our fields we have never been able to surprise him. Think of it. Something whispers to me that it would be well to listen to his offers of peace." But Blue Jacket leaped up and called Little Turtle a coward. Little Turtle simply replied, "Follow me to battle."

Many years before a hurricane or a tornado had swept over the land about Presque Isle hill, throwing the trees to the ground in all manner of confusion and making it literally a field of fallen timbers. From that fact the battle took its The Indians took up this seemingly impregnable position, impregnable because the cavalry, upon which Wayne depended, could hardly operate in such a



Roche de Boeuf, an Indian Landmark and Old Council Ground of the Red Men. works of which fortification even yet going to have that exposition at Toledo? seemed to frown down upon me in their Well, someone loaded it up and took it very desolateness, answered with the one

Maumee Valley by a snake railroad. In over, wouldn't it? spite of the placard before me to the still more sweeping mandate read, "Passengers not allowed to talk to the alighted, and the car sped back to To-laying waste the corn fields, destroying wayne halted his force at Rouche de motorman." Yet I, following the course ledo. Yet, the man's speech, "This is a the fruit trees, and burning the villages. Boeuf, an Indian landmark near the presof the historic old stream, did talk. "We mighty historic place when you know it" With famine staring him in the face, the ent town of Waterville. Then he built had a washout here," said the motorman. 'Bad place," I answered, thinking of how Mad Anthony Wayne's 900 troops pursued the 2,000 flying Indians over that very ground.

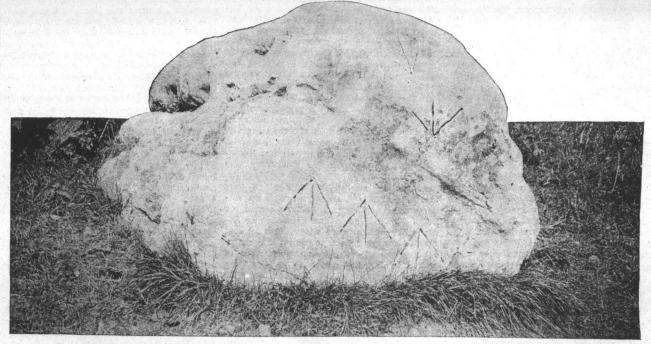
I noticed a flag upon a hill to the right. The wind caught it up and the stars and stripes waved bravely over the hill of green. Thinking of a national park or some other work to mark the historic locality with some degree of fitness, I asked the loquacious motorman, "What's that pretty place up there—where the flag is?" "Oh, that's the H— beer farm." Noticing the rather quizzical expression which, I suppose, came over my face, he added, "Nice place up there,

The car went on, and upon our right another hill loomed before us. Not much taken aback by the other answer, I asked, "What hill is that?" "Oh, that's Turkey-foot rock." The elevation didn't look like a rock-it was a hill. But the reason for the name soon became apparent. As the car neared the ridge we espied a rather ordinary bluish looking boulder resting half-way up the hill. An iron fence surrounded the stone upon which were inscribed some rather queer looking lines which, when rightly viewed, resembled a turkey's foot.

From the front vestibule of the car we the motorman didn't know it. got a glimpse of a road running up the

to town. Wanted to start a side-show. They've hauled it away-three times, but The railroad was certainly crooked. It they won't any more. See that fence? and apple orchards. The waving fields made me think that I was seeing the Take some pretty good men to heave it and loaded fruit trees extended up and

A passenger signaled a stop. The power effect that passengers were not allowed was shut off and the brakes applied. The with the motorman, I nevertheless kept man alighted and the haze of the early my vantage point, though over my head twilight spread itself over the river. The "Waterville." called



Turkey-foot Rock-Unique "Monument" Marking the Hill from which General Wayne Routed the Indians. We stopped at Turkey-foot station, would run through my mind. It was, but red man might more easily be brought to a fort in which he left his baggage, nam-

hill under trees on each side of the way, battle of Fallen Timbers was fought—a of peace to the chiefs who were encamped proceeded down the river past the site This is Presque Isle hill, and it is beau- contest which has very few equals in the about the British post, Fort Miami. This is Presque Isle hill, and it is beautiful, yet one would not think that about history of American border warfare. Interest Indian battle ever deed, when compared with the other history of fought in the middle west.

The British had built the stronghold knew that a battle was about to take but a year before, under the direction of place and consequently sent a force of torical events in the great northwest it the Canadian Governor Simcoe in open Kentucky cavalry in advance of the main

terms. Before further pressing the cam- ing it Fort Deposit on account of that was about the second hill that the paign, Wayne made one more formal offer fact. On the morning of August 20 he

The motorman turned the controller stands out in bold relief. Here it was violation of the Paris treaty of 1783. It party. The cavalry, upon discovering the

THE MICHIGAN FARMER.

Indians, were to feign a retreat and, by which the British themselves had insti- up the road. Seated on the sled were two and perhaps draw them from their hiding had to run to the near-by forest to escape

The form his line of battle. In order to pre- apparent unconcern. vent the savages from crossing the river, advance, received such a fire from the savages in the tall grass that he was compelled to fall back on the main force. trailed arms and, after having once startto take their guns and pour a well-directed fire upon the backs of the savages. with their bayonets that the fugitives guns nor to form a second line of de-

American line was upon the Indians before either friend or foe realized the fact. len logs at the bayonet's point. The cavalry stationed on the right wing kept the the Americans drove the foe before them, chasing them from their covert as we start a rabbit in standing corn. Indeed, hour found them two miles from Presque

gates of the fort to them, but the latter

ahead to give Wayne plenty of time to looked down upon their humiliation with

Wayne, in his anger at the duplicity of a force of cavalry was placed on the right the British, intended to storm the place. cheerily, 'Don't be frightened, Nancy; it wing of the line of advance. About that However, a close inspection showed the is only a frost bite. time Major Price, who had been sent in post to be a very strong one. To attack it would immediately precipitate a war between the two nations—a matter not to be lightly considered. In storming it his in frost bites which were greatly dreaded The force was ordered to charge with force would naturally sustain a heavy So the hero of Stony Point wisely loss. ed the red men from their position, were abandoned his plans. But he did not withdraw without making a display of easier the ugly thought would obtrude ithis force. The troops sacked and burned Then they were to follow them so closely everything in sight about the fortifica-Private houses, officers' quarters tion. might neither have time to reload their and store-houses suffered alike. It is said that while the ravaging was going on the British gunners stood by their Facing a most deadly and well-directed primed weapons, lighted torches in hand, fire from the lurking savages, the first ready to fire. Yet they, perhaps fearing the possible results, held their fire.

There have been hundreds of struggles In their haste, the troops heedlessly in which more men have been engaged, a the spring. charged among the hidden enemy, driving great many in which there have been the painted warriors from among the fal- more casualties; nevertheless it was a spectacular, memorable and well merited victory, and one in which the generalship fleeing horde away from the river which of the commanding officer is to be highly they otherwise would have crossed. Thus praised. We measure a man's worth by what he does, not by what he might, could or would have done. It is so in judging the importance of Wayne's vic-Wayne's men advanced like a whirlwind, tory on the Maumee. It settled Ohio Insweeping everything before them. One dian affairs forever and put a damper upon the forming of a great confederacy of the western tribes. It prepared a vast The cavalry followed the fleeing Indians empire for the great westward emigration to the very walls of Fort Miami. The which was to follow. Indeed, the popuchiefs expected the British to open the lating of a great territory, the spreading of civilization and the development of the held their promises to the Indians in the natural resources of vast tracts of the same light that they held their treaties richest land on earth, all hinged upon the with the Americans, and not a hand was fearless charge of the nine hundred in turned to aid the fugitives of the fight the fallen timbers on Presque Isle hill.

so doing, increase the enemy's confidence gated. They were grossly abandoned and of our nearest neighbors who had gone to work on the road with father. A third American bayonets, while their supposed man lay in the bottom of the sled. Filled Kentuckians went far enough friends upon the battlements of Miami with dire forebodings of I knew not what. I ran and threw the door wide open. The third man was father, with both feet swathed in bandages. He called out

> "The comfortable footwear of today was unknown then. Long hours of exposure in the cold and snow frequently resulted For days father's feet were so painfu that I had little time for anything but caring for them. After he began to rest self, how will we manage to live through the winter? Father would not be able to work on the road again that winter. The neighbors were in no better circumstances than ourselves, I knew.

> "There was plenty of marsh hav for the oxen, and a few bushels of corn which they would not need if they did not work, The corn I divided in halves after carefully counting out enough ears for seed in John and I shelled the remainder. I then sent the corn to mill by a neighbor. The order for father's work on the road had also been turned over to him. He exchanged it at the store for the bare necessities of living.

> "Days crept into weeks and, in spite of the ointments and dressing applied, father's feet healed very slowly. One day in the latter part of January I was feeling very blue and trying hard to conceal from father the fact that our provisions were low again. We were just sitting down to our frugal mid-day meal when Perquah entered with her papoose. I place a plate for her. After dinner she followed me about the cabin, peering into boxes and barrels, much to my annoyance. I decided she was rightly named, porquoi.

> "The next morning on the doorstep I found a basket of cornmeal and a saddle of venison. In the freshly fallen snow were the tracks of a squaw's moccasin. It was Perquah's footprints, and this accounted for Perquah's inquisitive man-ners of the day before. To think that she had walked that distance and carried that heavy load!"

> Tears stood in Grandma's eyes trembled in her voice as she told it.

"I carried the provisions into the house realized for the first time what a strain the past few weeks had been on father, as well as myself, when I showed him Perquah's gift. This did not end the squaw's good offices for our family. Three times during the next few weeks we found a basketful of meat and meal left by her on our steps.

"When the days began to grow warmer father became able to move about the house a little. Your Uncle John and I arose very early one morning, hitched Buck and Bright to the sled and drove the long distance over the rough trail to the little settlement called town, taking the last of the corn to be ground.

"On arrival there we found a letter awaiting us from our people in the east. They had thoughtfully prepaid the postage of twenty-five cents. The joy I experienced when I found it contained plenty of money to tide us over until another harvest can never be told.

"Our neighbors, who were from the same vicinity, had written home of our misfortune. I sat down at the dry goods box used as a desk in the combined post office and store, and poured out my heart in a letter to our people in the east

"Then I selected the gayest red print I had not expected to do, we set out for home and arrived a little after midnight. print I had purchased. John begged the privilege of carrying the garments to Perquah, and as he was familiar with the forest in that direction I let him go.

Perquah silently and gravely held up the little papoose for our "On my describing her he decided that inspection. Again she stayed to dinner, then followed me about the house. and meal. I filled a sack with the flour for her to carry back to her wigwam.

"Perquah came just once more before weary, and quickly arranged themselves and the name always stuck. 'She will the breaking up of camp, bringing a for the night. I, too, slept. In a short never forget your kindness and if she wicker covered basket filled with maple time I found myself sitting up in bed, ever has a chance she will repay you in sugar, and a pair of moccasins beautifully embroidered in beads and porcupine quills "One afternoon a few days later I for father. That was the last time we catch the breathing of the two boys who heard the cracking of a sled on the hard, ever saw her, as the influx of settlers the were asleep in the trundle bed. I was frozen snow, and through an opening of following year, and the clearing of the just dropping back on my pillow, think- the trees I saw Buck and Bright coming land, drove the Indians farther north.

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GRANDMOTHER'S STORIES.

"Perquah, the Little French-Indian." BY HARRIETTE V. DAVIS.

It was a stormy night. The wind howled about the house, shaking the casements, the snow sifted into every crack and crevice, making the big fire, leaping and crackling in the fireplace, seem all the more cheerful by contrast.

Grandma, comfortably seated, with knitting needles flying, glanced over her spectacles at us children, remarking, "This weather reminds me of our first winter in this state."

"The atmosphere seems charged with a story," chuckled Grandpa, winking across the checker board at me. Bennie and Dorothy sprang to their feet, eagerly exclaiming, "Oh, tell us about it, do Grandma.'

pleasant as some of them." But, earnestly importuned, Grandma began: "The first winter is always a hard one financially on new settlers in a timbered region, especially more so if they move there in the spring as we had done. So father planned to work on the new plank road that was being built by the state that winter.

"The children and I had been alone about a fortnight when, one cold stormy night, your Uncle John, who was in his thirteenth year and the eldest, helped me roll a back log into the fireplace, which in those days extended across the end of the cabin. After piling in several smaller logs we blew out the candle and went to bed.

"I was awakened from a light slumber by the lifting of the latch. A squaw with a papeose on her back stepped noise- campment of Saginaw Indians about six little dress and a big one from the red lessly into the room and lay down in miles north of us in the woods. The Infront of the fire. It was my first sight dians came here every winter to hunt and thing was perfectly harmless, only want- making, as this was one dense forest of ing a place to sleep where it was warm, maple trees. He also said he had just "The next day she and the little papoose I did not sleep again until almost morn- come from camp; that Perquah and her visited us, looking very resplendent in noiselessly as she came.

"The next night the storm still raged. the room, each bearing a papoose. I no- an Indian mother. half asleep, listening to a hoarse croupy full,' concluded the trapper. cough. I leaned over the bed rail to

ing I had dreamed it, when the cough was repeated from the fireplace. Glancing in that direction I saw the young squaw sitting up, holding her papoose in her arms. The little thing was struggling for breath, "I bounded from the bed, stirred the

fire to greater activity, ran to the cupboard for a bottle of croup medicine and poured out a dose which the squaw administered to her papoose. Then I hung the tea kettle on the crane. As soon as the water was hot we applied cloths wrung from the water to the child's The other squaws awakened enough to roll out of our way, then dropped asleep again.

"All night the mother and I worked faithfully to save the infant's life. In the early morning hours its breathing became easier and it dropped asleep.

"When the other squaws awoke and prepared to go the young squaw began, "This is our hard luck story-not as in a very reluctant manner, to wrap up the sleeping papoose. I took the papoose from her arms gently but firmly, drew the curtain aside from the tiny window, pointed to the drifting, whirling snow, and shook my head. Then, bringing out the cradle, I placed the little papoose in it and motioned the mother to lie down and sleep.

"Two days and three nights the squaw and her papoose remained with us. The second night there was a slight return of the croup, but the third night we all slept soundly. On awaking in the morning the squaw and her papoose were gone. I felt badly about her going without leave- I could find for dresses for Perquah and taking, and decided she was very un- her papoose. After doing the trading grateful.

"A trader stopped at our place that morning and told me there was an en- I spent the following day fashioning a of a squaw. Although I knew the poor trap, remaining in the spring for sugar When I awoke she had gone as papoose had been away while he was their new dresses. there.

We had hardly gone to bed when again it was Perquah who had visited us. She the door opened and six squaws filed into was the daughter of a French father and showed her the barrels filled with flour Perquah was a corticed one in particular, she being slight ruption of porquoi, the French for why. and made Perquah understand that it was and girlish looking, seemingly not more Her father called her little porquoi, bethan sixteen years of age. They seemed cause she was so inquisitive as a child,

THE MICHIGAN FARMER.

THE BLUEBIRD'S SONG.

BY MAY ELIZABETH WHITE.

As he sings and lifts his wings, Pensive is his eye; Memory clings to distant things Seen in field and sky.

Hints of pain in that sweet strain Linger in my ears, Minor strain in Joy's refrain, Like unbidden tears.

Frail as flower from sheltered bower, Floats the dreamy song; Yet it has power to guard an hour, Help a soul grow strong.

THE DATE OF EASTER.

BY EMILY L. RUSSEL.

All know that Easter is a movable feast, but very few seem to understand why it is sometimes in March, but oftener in

By decree of the Council of Nice, in 325 D., Easter was fixed as the Sunday "following the full moon on or next after the 21st of March." - If the moon fulls on that date and the next day is Sunday, that will be Easter. In the last century the date fell on March 22 but once—in 1818-and will not occur again until in The next earliest date March 23, 1913.

If the moon fulls just before the 21st it brings Easter late in April; the limit is the 25th, which was reached in 1886. and will not recur until 1943. We may have several Easters in succession in April but never in March, not even in two succeeding years. We have it in this month the present year, and in 1913, 1918 and 1921, then not until 1929, recurring at about these intervals during the remainder of the century.

"To open" is one of the meanings of of flowers and ribbon streamers. As they "Eastre." Eastre in ancient times was the Anglo-Saxon goddess of light and spring, whose festival was celebrated in April, called the "Easter-monat." And we still look upon the day as the opening of springtime, hence when it comes in March people naturally think it means

an earlier "opening" of the season. In the last half century there were but eleven March Easters to thirty-nine in April. The last time it fell on the same date as this year was in 1864, when many a homesick soldier sighed for peace and home. The next Easter there was peace, but a mantle of mourning had fallen over the country. Next year it will be on the 16th of April and the following year on the 7th of that month.

Easter is now recognized throughout the United States as a church festival, even by the descendants of the grim Puritans who endeavored to strip the worship of the sanctuary of everything the Lord had made of grace and beauty. The lilies of the field and the cedars of Lebanon were alike under ban. No flowers at Easter, no evergreens at Christ-

"Fill the Easter font with care,
Heap the roses rich and rare;
Round the stately calla set
Heliotrope and mignonette;
From their fragrance comes a voice,
Bidding Christian hearts rejoice:
Whispering through their lips of bloom
'Christ is risen from the tomb.'"

OLD EASTER CUSTOMS.

BY M. B. R.

In the ancient town of Chester, Eng-

lover, knowing well that her father was too busy with his own part at the festivities to interfere, entered what was called "Pepper gate" and carried off the fair he discovered the loss, ordered the gate closed, giving rise to the proverb, "When gate," which reminds us of our own saying, "When the horse is stolen lock the stable door."

The practice of archery was not forgotten, the reward for the best shot being provided by the young men whose first year of married life had not expired.

On Easter Monday a crowd of young gallants carried about a chair lined with rich white silk and adorned with garlands



Pets will have their Play—even in Housecleaning Time.

met a fair damsel she was requested to seat herself in the chair. The chair was then lifted as high as the young men could poise it in the air and, on its descent, a kiss was demanded by each and a fee must also be paid.

On Easter Tuesday the women took their revenge and went about in the same If a young man was seen and pursued, his escape was in vain. Three times must the luckless wight be elevated. This custom was called "lifting." On one occasion a staid clergyman was passing through a town in Lancashire on Easter Tuesday, and, having to stop an hour or two at an inn, was astonished by three or four lusty women rushing into his room, exclaiming that they had come to "lift" him.

"To lift me? What can you mean?" "Why, your reverence, we have come to lift you 'cause it is Easter Tuesday."

"Lift me because it is Easter Tuesday? don't understand." 'Why, don't you know? All us women was lifted yesterday and us lifts the

men today in turn; 'course its our rights and duties to lift 'em." promised with his fair visitors for half a

crown and thus escaped the honor. Monday the men claimed the privilege of of

taking off the women's shoes and the next of the insect's mandibles, to a kind of day the women retaliated. How strange that these coarse and vulgar customs has been thickly plastered on the inside, were in memory of the resurrection. The they make horizontal combs suspended thought of the rising from the grave, as peculiar customs long prevailed, both words hold the idea of ascent, but At this festival might be seen the mayor the removing of footwear seems too re-

doors, who joined them in the choruses and rejoicing. Their wide-brimmed Spanthe daughter is stolen, shut the Pepper ish hats were decorated with flowers, the autumn of our year." crowds of children accompanied them. and as night came on they bore lighted torches of pine wood which threw odd shadows over the spectators and picturesque wooden huts.

The paschal eggs were not forgotten. These, boiled hard and dyed in bright colors, were brought out by the good wife, and when the children presented their baskets they were freely given. At the better class of farmers' houses other refreshments were offered and the singers repaid for their carols.

HOME OF HOOSIER HORNETS.

BY ALONZO RICE.

The accompanying illustration shows the home of the Hoosier hornet. It is a busy domicile, being filled with lively little inhabitants. The nest is fifteen inches in length and thirty-six inches in circum- millionaire courses swiftly along among ference. It is suspended on some little the keys, or lies at anchor in some shelbushes about three feet high.

larger. It has four wings, the first pair a few miles inland. The tourist in his

and with these it flies with great velocity. The head is oblong, and yellowish; the eyes are prominent and semilunated, and between them are two falciform antennae. The body is united to the shoulders by a slender filament; the middle of the fore part is of a dark brown hue, marked with a deep yellow belt, and the hinder part is wholly of that color, except that it is variegated with eight brown spots. The hornet, like the wasp, extremely voracious and preys on almost any kind of fresh animal substances which it can obtain, as well as on Its honey, fruit, etc. sting is greatly to be dreaded, and is often productive of serious

being by far the largest.

consequences. The hornet's nest is generally built in the cavity of some decayed tree, or immediately beneath its roots. Not unfrequently it is found

old wood or bark, reduced, by means ripples behind. soft pasteboard. With this, after the nest "lifting" might have originated in the from above by strong columns, the central being the largest; the cells are hexagonal, with the opening downward.

A few females, or perhaps a single one, having escaped the rigors of the winter, being neuters, which, when perfect, help their eggs in the spring, the first broods being neuters, which, when perfect, he'p their mothers in the domestic economy of the nest. The larvae are footless, each enclosed in a separate cell, where it is fed on insects and honey stolen from bees. When the larvae have acquired their full growth they line the cell with silk, cover the opening, and in this undergo rubber. their metamorphosis. The neuters aid in building the other nests and in feeding the successive broods of larvae. As the connecting these gulfs and lakes, family increases, new cells and additional forming a continuous pasage inland parplatforms are constructed.

soon perish from the cold. There are about 150 individuals in a nest.

A well-known naturalist writes: hornet is a very pugnacious animal. They will fight desperately with each other at times, when they meet in pursuit of prey, biting each other's body and trying to get with its red serrated bill, to the Mallard their mandibles under the head of their and Blue Bill. In the reeds along the

In a certain part of the Tyrol bands of fined, under a glass, two of these creamusicians, for which the Tyrolese have tures which had been fighting. One had always been noted, traversed every val- evidently the mastery, but both had been ley singing beautiful Easter hymns to so injured in the contest that they soon maid, whereupon the angry father, when their guitars, calling the people to the died. It is most probable that they fall victims to each other's voracity in the cold damp season that usually terminates

A DUCK HUNT IN THE EVERGLADES.

BY C. R. ROSS.

Several years ago I became tired of the hum-drum life of a city salesman and de cided to go in quest of adventure. I started out with no place in particular in view, and finally found myself, after a few weeks of drifting, in that peculiar region, the Everglades. My trip, taken simply to satisfy my curiosity, aroused my interest and I decided to throw in my lot with the few adventurous settlers who loved the Glades and the pine forest and who became the vanguard of civilization in that place.

At that time this was a most lonesome land. Even now there is a strange blending of the wilderness with civilization. While the steam yacht of some northern tered cove, the Seminole Indian, in dug-This insect is of the wasp kind, but out cypress canoe, pushes his way through much more formidable, and considerably the saw grass waterways of the Glades,



in timber yards and other similar situa- glistening motor car may stir up the dust Needless to say the reverend com- tions. It is of a rounded form, made of of the rock roads along the coast, but in coarse materials, and of the color of faded passing some dark stream he may be leaves. The materials of which the nest quick enough to see the startled 'gator In some parts of England on Easter is composed are prepared from particles sink into the water, leaving a circle of

The land just back of the ocean beach is a kind of muck prairie of varying width and with a dense covering of vegetation In some places there are long shallow gulfs or bays, which run into this prairie and extend up and down parallel with the coast for ten or fifteen miles at a stretch. Lake Worth at Palm Beach is one of these. It is really not a lake as its name implies, for it is still connected with the ocean and is influenced by the tides. In other places, deposits have been made at the mouth of these bays, forming true lakes of brackish water and in most places of very little depth, but with deep deposits of mud and slime. In some places the surface has filled up and hardened, forming a crust something like India

At the time of which I am writing, the East Coast canal allel to the coast line. The banks were The young females and young males overgrown with grape vines and creepers. come forth about the beginning of au- In many places the mangrove had taken tumn, and all larvae which cannot become root and, with the native rubber tree, perfect before cold weather are destroyed formed a thicket. Here and there cocoaby the neuters. The males perform no nut palms and fan palmettoes grew tall labor. Both sexes meet on the trees in and stately above the lesser shrubs. Here autumn, feeding on saccharine juices, and and there, adding a touch of color to the scheme, were the African Hibiscus with bright red and crimson blossoms and im-"The mense clumps of oleander. This canal, with its variations, was an ideal place for wild ducks. Almost every kind was found there, from the unedible fish duck, opponent, to snip it off. I one day con- bank the mud hens were at home and the



All Ready for Beautiful Spring and Dry Roads.

forth to play at football on the beautiful nation. meadow lying between the city and the river. The women, also, had their share in the sport and had their own game in

maidens, was engaged at the game, her

and other dignitaries of the town sallying motely associated to afford any expla-

Anciently both clergy and laymen used to play at ball in the churches for tansy cakes. These little cakes had a mingled sweet and bitter taste in memory of the As the mayor's daughter, with other bitter herbs eaten at the passover, which festival was also observed in the spring.

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with its all-steel wheels that last a lifetime. It gives you the low lift instead of the high lift and saves your strength thousands of times a year. You can have wheels any height—20 to 60 inches—and any width or tire. The Electric Handy Wagon is a wagon for all work.

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Saving on Every Suit or Overcoat You Buy.

I am shipping clothing every day to farmers all over the country, letting them try the suits on and examine them in every detail in their own homes. I want to tell you how I can sell you better clothes than you have ever worn for less money than you have ever paid before. Only two prices on my suits and overcoats—\$10 and \$15—I don't want a single penny down.

SEND ME YOUR NAME TODAY.

On a postal card and I will gladly mail you my big circular, order blanks and tape-measure. I have no schemes or fakes in selling you direct, I take all the risk, I want one farmer in every neighborhood to know how I do business. Write me today.

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Perfect Tackle Blocks 70c Up

The Burr self-locking tackle block will positively not slip on wet, greasy or dry rope. Yet it has no teeth or claws dry rope. Yet it has no teeth or claws to injure the rope as all others do. It has no springs of any kind to get out of order. It is as adjustable as a differential chain block. It will lock positively at any angle—even up side down. One man can do the work of four with this marrelows little form

with this marvelous little farm help. Lasts a lifetime and pays for itself on one job. Prices only 70c to \$4.25, according to capacity of 600 lbs. up to 5,000 lbs. Write today for catalog and full in-formation about the one practical rope tackle block on the market.

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MACHINERY in America. We have been makhave been making it for over 20 years. Do not buy until you see our new Illustrated Catalogue No. 14. Send for it now. It is FREE.

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Just Say "Saw your ad. in the Michigan Farmer" when writing advertisers

shy alligator basked in the sunny openings. In short it was a hunter's paradise

When I first went to Florida I hardly knew a shotgun from a rifle, but life in the Everglades will sometimes make hunter out of very unpromising material and I soon acquired some skill with both and enjoyed a hunt as well as the old woodsmen.

At the time of this incident I was living at Delray, a little settlement not far from the lower end of Lake Worth. The canal was dredged out through the flat lands for several miles and then widened out into a series of large mud lakes. Here and there were channels diverging from the canal and meandering aimlessly out through the muck lands, sometimes ending in blind pockets and again opening back into the canals.

One of my neighbors was an old Irishman whom we will call Mike. He had been a great hunter in the marshes of New Jersey and on a chance trip had fallen in love with the streams and lakes of Florida. Dr. Ashley, a young fellow from Arkansas, was a mutual friend, and the three of us enjoyed many a hunt together, sometimes going to the lakes in the doctor's automobile, and sometimes rowing down the canal in a light duck

At the time of this hunt we planned that Mike and myself should row down the canal and the Doctor would come in his auto and join us at the mud flats. We got everything in readiness the night before. Our guns were always kept clean and in first-class condition, but we got out plenty of shells and packed our lunch so that we could get an early start. At a few minutes before three we launched our boat and started on our five-mile row to the hunting grounds. There was a dim light from the moon, and the murky water of the canal glowed with a phosphorescent light, while the drops from our oars glistened like minute electric lights. The mullet seemed to be in a festive mood and leaped out of the water by the hundred. One of them, either stronger or more adventurous than the others, landed in our boat, but we were after ducks not fish, so we threw him back into the water.

Just before daybreak we reached the place where the canal widened out into the mud iakes and, entering one of the channels or bayous, we crept stealthily along with silent oars, hugging the bank and trying to be as inconspicuous as possible. This was the ducks' feeding time and we were likely to find a bunch at any time. As we rounded a little island we saw a large flock swimming and feeding ahead of us. They had not yet noticed our approach and we gave a quick pull with the oars, hoping to get within range before they took flight. This time, however, luck was against us, for we grounded on a mud bank and the birds rose just out of gunshot. After much tugging at the oars, we got afloat and tried again. We had better luck next time, both Mike and myself getting several. During the morning we shot several on the wing, but they became shy and we determined to try a new plan. I went ashore on a little island overgrown with brakes and large ferns. There was a large flock of ducks about half a mile off. Mike was to work around them in the boat and try to drive them up toward the island. In case they took flight, we hoped that they might pass over one or the other of us and give us a shot. Our hopes proved vain for the flock became alarmed and flew away quartering and not within range of either

About this time I saw a number of coot in the reeds near the island and, despairing of better game, I shot at them, killing one. A few feet from the place where I was hiding, and separated from it by about three feet of water, was a little hummock rising out of the water. It looked solid and I decided to chance it and try for another shot. I jumped, and, instead of landing on ground as I supposed it to be, found myself in a floating mud bank with nothing between me and the bottom but some twenty or thirty feet of liquid mud, too thick to swim in and not thick enough to bear my weight. Here was a dilemma. My jump had landed me in the mud up to my knees. At every move I sank in deeper and I began to think that this was my last duck hunt. Mike was half a mile off, so there was no help in that direction. time I was in up to my waist and if any-thing was to be done it must be done quickly. I had been trying to support my weight with my gun laid crosswise. So far it had proved ineffectual, but finally I found a place which was firm enough to bear my weight. In floundering about

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BOYS AND GI

A Shetland Pony, Cart, Harness, Saddle, Bridle,



This is the Pony, Cart and Harness. The Saddle Appeared in our Last Issue.

Here is that chance you have been looking for. An opportunity to secure for yourself a

REAL LIVE SHETLAND PONY together with the Cart, Saddle, Harness and Bridle. The best part of this is that it won't cost you or your parents one cent. It is absolutely FREE. We are not going to sell this Pony and Outfit, but are going to give it away.

HOW TO WORK TO WIN "BEAUTY."

this dandy Shetland Pony and Outfit, simply and address today, just as soon as you can. Our plan is absolutely fair and we give no child any advantage over any other child. All will be given the same opportunity. Just imagine the fun you can have driving to school, to the post office and everywhere with this clever little pony. You must surely send us your name and address today, because we can't give the pony unless we know your name and address. It won't cost the winner anything but a little of his or her time during the next few weeks. We pay all charges for crating, shipping, etc.

Send us your name and you will hear something which will please you immensely.

Cut out and sign this Coupon or copy on a Postal Card and Mail Today. Pony Contest Editor, Care of the Michigan Farmer, Detroit Mich.

Please send me Certificate of Entry and pictures of "Beauty". I haven't any Shetland Pony and want to own "Beauty".

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Largest makers of pure paints in the world

Easter Prize Offer

A prize for 100 persons who write a reason for preferring

SHIRLEY PRESIDENT SUSPENDERS

Your letter giving reason "Why a Man Should Prefer SHIRLEY PRESIDENT SUSPENDERS" may win one of the 100 prizes.

THE PRIZES:

1st prize, \$50.08 4th prize, \$25.00
2nd prize, 40.00 5th prize, 20.00
3rd prize, 30.00 6th to 10th prizes, 10.00
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21st to 50th prizes, One pair of Shirley President
Suspenders, with gift trimmings, value \$1.51st to
100th prizes, 1 pair of Shirley President Suspenders (regular 50 cents.)
This contest is onen to eventhely. Wide leave

This contest is open to everybody. Write in 200 words or less. The One Best Reason "Why a Man Should Prefer SHIRLEY PRESIDENT SUSPENDERS."

Sign your full name, address, and the name and address of your clothing dealer. We must have the dealer's address, for the prizes will be distributed through him whether he sells Shirley President Suspenders or not.

Contest Closes April 15th

No attention paid to letters thereafter. The winners will be announced and prizes awarded about May 10th. Write your letter today.

The C. A. EDGARTON MFG. CO. 756 Main Street Shirley, Mass

OBEAUTIFUL FREE

These are the kind that sell in the stores for cents each. We want to send you a sample packages and all we ask is that you send us 5c stamps to cover cost of postage and packing. They are the grandest cards you ever saw. All in colors, showing rich flowers on gold and silk flish background, we also send you full particulars of our easy plan for getting hundreds of others from us absolutely free Address. POST CARD CLUB, 74 Bagley Ave., Detroit, Mich

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we will make one person in each locality as Special Free Office Remember, if you send the Wonder Lamp, express prepaid. We want to place one for demonstration purposes in your home and sak that you recommend it to your neighbors. Let the Wonder Lamp light your home. Simply send your name and address today.

Factories Seles Co., Dept. 15, Kansas City, Mo-

WANTED. Farm Hand with Family,

on Dairy Farm in Central Michigan. House furnished. Send full particulars. Address F. S. KENFIELD, Augusta, Mich.



I had not noticed that one of the gigantic ferns bent over toward me. It was almost within my grasp and, by resting my weight on one arm, I was able to get the end of it in my fingers. A drowning man will grasp at a straw, and indeed this seemed almost as frail. By pulling gently and steadily I got my hand on the stem and with that help was able to draw myself to the bank. For a time I lay muddy and exhausted but it was not a great while before Mike came along with the boat and I was glad to-leave the scene of my disagreeable adventure.

A short time after this the doctor joined us and soon had a similar experience, though not as serious as mine. While we were pushing through the shallow water near the shore we ran hard and fast into the mud. It was only a few feet to the shore where the grass grew rank. The doctor volunteered to jump out to lighten the boat. Taking a run he landed all right, but the grass proved to be as deceptive as my mud bank, for he went right through. However, the sod was thick enough to afford some purchase and after floundering about, to the great amusement of Mike, he finally got his feet and legs out of the mire.

The doctor started out that morning in new hunting suit with yellow leggings. When he got out of the mud he looked even worse than I did in my old clothes somewhat the worse for wear. It was a bedraggled lot of hunters that went home that night, but we had a bunch of ducks, and I, at, least, was thankful to be alive.

KINKS.

Kink I.-Rhyme Rebus.



was a young fellow whose first name was —, took an umbrella; his face not

He carried a — and some ice in a —, And said, "I'll keep cool if I possibly

He met a young lady, the beautiful —. She said, "So much softness becomes not felt that his comfort was under

So turned on his heel, and away fairly -.

So turned on his heel, and away fairly —,

Kink II.—Tree Knots.

1. Which part of a tree is of use to a traveler? 2. Which part does every dog have? 3. Which does every flowering plant have? 4. Which part is found in a book? 5. Which, when beheaded, is useful to a bald-headed person? 6. Which part do you use when you meet an acquaintance? 7. Which does every river have? 8. Which parts are in your mouth? 9. Which part is chewed by some people? 10. Which makes a delicious sweet?

Kink III.—Four Letter Square.

Kink III.—Four Letter Square. Part of the body. Measure of land. Stomach of a bird.

Retained.

Prizes for Straightening Kinks.—To the sender of each of the ten neatest correct answers to all of the above Kinks, we will give choice of a package of 50 post-cards of general interest, an Atlas of the World, or a book. "A Trip to the North Pole." Where contestant or some member of his family is not a regular subscriber a year's subscription (75c) must accompany answers. Answers must not reach us later than April 9, as correct solutions will be published in issue of April 16. Address answers to Puzzle Dept., Michigan Farmer.

igan Farmer.

Answers to Feb. 9 Kinks.

Kink I.—Fruits and Plants.—1. Raspberry. 2. Dewberry. 3. Nightshade or blackberry. 4. Hackberry or dates. 5. Dog fennel. 6. Cane. 7. Sumac or waxplant. 8. Bachelor's buttons. 9. Milkweed. 10. Phlox or shepherd's purse. 11. Bleeding heart or Job's tears. 12.—Smilax or balsam.

Kink II.—1910 Magic Square.—There can be various combinations. This is the set given by one of the winners:

380 393 376 389 372

373 381 394 277 285

380 393 376 389 372 373 381 394 377 385 386 374 382 390 378 379 387 370 383 391 392 375 388 371 384

Kink III.—Numerical.—Salt, Vine, Ten-St. Valentine.

Stock Up with Fresh Soda Crackers

Instead of getting a large package of loose soda crackers that soon grow stale-stock your pantry with small tight packages containing

Uneeda **B**iscuit

Fresh soda crackers every time you eat—the last as fresh as the first—because they are placed in moisture proof packages the moment they leave the oven.

(Never Sold in Bulk)

NATIONAL BISCUIT COMPANY

Don't Pay Tribute to a Trust

High Grade Rubber

RUBBER GOLD CROSS SHODDY **CENTURY BOOTS**

are made of the strongest rubber in the world. They're made on the honor, by people who know how, on a special plan of construction that experience has demonstrated a success. The duck vanys are made for forcing the highest grade rubber into the best quality as a presention against cracking at the ankle, we use an extra ankle reinforcement of pure gum, while most others use a strip of cloth. Cloth is cheaper century Soles are made from the toughest compound known, and will outwear the soles of the average rubber boot two to one. Here we reinforce again by running a strip of pure gum all the way around the edge of the sole, making a connection so firm and lasting as to absolutely prevent breaking. It's not easy to tell a good rubber boot by appearances, and even the dealer gets fooled occasionally. More often he yields to the temptation to make what looks like a little 'easy money' by stocking up on a 'cheaper' article on the representation of some smooth salesman that 'lit's just as good' as the Century. Why take change goods of doubtful quality when you can have Century bey your sold prophed haist on having the Century. It will be your of prophed haist on having the Century. It will have money' best for whom a constant the subject of the money 'best for whom a constant the subject of the money 'best for whom a constant the subject of the money 'best for whom a constant the subject of the money 'best for whom a constant the subject of the money 'best for whom a constant the can't supply you write us, giving his name, and we will see that you are fitted out.

The Beacon Falls Rubber Shoe Co.

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He simply steers it—the machine does ALL the work. A slight pressure of the foot moves the wheels and shovels simultaneously to the right or left at the will of the driver, while the width between gangs and depth of shovels are instantly and easily adjusted while machine is in motion.

Hillsides, Uneven Land and Crooked Rows as Easily Cul-tivated as Level Ground. tivated as Level Ground.
Simple in construction
nothing to get out of order. Made entirely of steel
and malleable iron - every
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Light draft. Highor low
wheels or Pivot gang.
Also Clipper Hammock Seat.
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DEPT. 12 AKRON, OHIO

What Governor Deneen, of Illinois, Says About It:

125 Million Bushels of Wheat in 1909

Western Canada field crops for 1909 will casily bring \$170,000,000.000 in cash.

Free Homesteads of 160 acres, and pre-emption of 160 acres, apply to Sup't of Immigration, Ottawa, Can, or to the Canadian Government Agent. (5)

M. V. McInnes, 176 Jefferson Ave., Detroit, Mich.; O. A. Laurier, Marquette, Mich.

WOMAN AND 👄 HER NEEDS

THE FARM OR THE "WORLD"?

Your Children Will be Helped to a Decision by What They Read.

article in a daily paper. It set me to useless than they are now, no matter wondering how many mothers really what they read. know what their children read, or give themselves the slightest concern over the matter. Of course, you can not know all things. Let them read, if they must your edaughter reads. No matter how read fiction, such books as "The Minisvigilant you may be, she is sure to read occasionally something you can not know about. A newspaper, a book at a friend's house, an article passed around in school, circulars sent through the mail or dropped on your doorstep, all are likely to find their way into your child's hands without your knowledge, and it is barely possible that your daughter has already absorbed a great many things you did not want her to learn for awhile.

But in spite of this, every mother can exercise a supervision over her daughter's reading, and over her son's as well. Yet I really believe that for every mother who intelligently passes upon her children's reading, there are five who do it only in a perfunctory way and five times five who do not trouble themselves ever to enquire what that story is which Mary or Jack is reading.

A lack of understanding of human nature is in a great measure to blame for Mothers fail to realize how much young people are influenced by what they read. Everyone, at whatever age, is affected by the class of reading in which he indulges, but young people, being so much more susceptible are influenced to a greater degree. As we grow older we grow more discerning, we are able to balance one thing against another and to decide what is wise and what is foolish. Youth knows nothing of such judgment. It swallows everything, and if it is at all impulsive, proceeds to act upon everything it reads.

On this account it is not enough for us to know that our children do not read the trashy and light in books and papers. It is not enough to forbid our boys to read blood and thunder novels, and to burn the "His Only Love" sort of fiction our daughters admire. We must see that they read only what will influence them to be the sort of men and women we desire them to become.

A mother wanted her son to become a business man. He was very fond of read-business man he seated. Tiny vases as souvenirs manner. At a party of this sort the effect ing, and the mother knew in a way that decorating. For an Easter party of fun at each place may hold a small bunch of was very interesting. Quaker bonnets, she must be careful of what she allowed and pleasure the invitations may be sent violets, and the bonbon dishes may be Gainsborough hats, old-fashioned creahim to read. But she made one mistake. Instead of surrounding him with books affairs, stories of the brave struggles of men who began at the bottom of a trade or profession and mastered it, she bought possible tales but classics in their way, yet all telling stories of travels by land The lad read and read of decide his vocation, he chose the navy. His mother wept and importuned, pointed to the disadvantages of a life on the sea, and to the good to be gained by going into a business house. But it was The impressionable youthful can read the message too late. mind had already taken its bent, and the sea made the strongest appeal.

as she saw it. The troubie was that she lustrations show a pretty center piece for did not see far enough. She had kept the an Easter luncheon, and a cake which impure and bad in literature away from may be used as a center piece or on a her boy, but she had given him that side table as preferred. which could only tend to create a roving spirit.

So with our daughters. We want them to be clean-minded, sensible, home-loving, industrious women. Then see what they read only that which will tend to dignify labor. Give them to read of the lives of women who have been workers, ordinary things, such as bringing up children and keeping house and making read the popular fiction which has to deal of spending the money their hardworking varied shape and kind, but either idea paper, cut in egg shape.

HAT Does Your Daughter Read?" forbears amassed. Leave books of this was the striking headline which sort to the people who are described in caught my eye recently above an them and who could not become any more

ter's Wooing," where the heroine and her mother were capable housekeepers and which has been tinted different colors and better class, essays, travels to some extent, history, and a good home magazine about the edge. Pretty little Easter cakes all may be included in their reading.

the beauty and comfort of life in the land, of the beauty and rest and peace of a life lived "far from the madding throng's ignoble strife." Do not fill her mind with fiction about the broadening yellow silkoline, or if a hostess desires, influence of city life, of the advantages of living among one's fellows, of the plays to be seen, the music and lectures to be heard in a metropolis, the parties one Our daughters, the daughters of the may attend and the gay life generally, great middle class, should read of better and then expect her to be a happy and contented country dweller.

DEBORAH.

ENTERTAINING AT EASTER. BY MARJORIE MARCH.

HE calendar gives us Easter once makes a novel idea for the distributing of more, when the rising of spring and favors at an Easter function. its wealth of flowers bespeaks the glory of growth's reappearance. The hosting the Easter holidays can not go far cloth, look beautiful for an evening affair, amiss, for there are Easter traditions a-

Suggestions for Tables.

Lilies and their leaves laid in an effect- Hard boiled egg salad with Lettuce and ess who plans some sort of festivity durive mass in the center of a spotless white tall glass candlesticks with white tapers plenty to help her with novel ideas, and rising from their midst. A single white

lily, real or artificial, can be at each cover, and an Easter card tied to the flower with white ribbon can show the guests their places. White baskets with frills of white paper make very pretty bonbon dishes, and ices, cakes and alal fancy touches to the feast may be served in white lily cases.

A Violet Table.

beautiful luncheon having lace doilies over violet tinted silk. In the center of the table a round mirror edged with smilax and small bunches of violets may reflect a "shower bouquet" of violets which hang from the chandelier. Long streamers of pale tinted violet ribbon may hold bunches with their mirror but all, of course,

out on cunning little cards cut in basket tall stemmed glasses resting on little vio- tions, sunbonnets and every imaginable let edged mats, or on smaller doilies over violet silk.

A Nest Table.

A nest of pretty grasses filled with co!ored eggs makes an attractive center as the grown-ups. If the decorations are the year, on which to offer ones hospital- desired elaborate, have strings of baby

The dessert may be a gelatine dessert loved the long, white seam. Poetry of the moulded in egg shells. Turn out on a decorative platter and pile whipped cream Il may be included in their reading. may be served with this dessert. Ice If you want your daughter to stay on small cakes and in the center of each the farm, see that what she reads extolls stick half an egg shell, with a ragged edge, the ragged edge uppermost. In country. Let her read of what women this little vase place a bunch of flowers, have accomplished with a few acres of or, if preferred, a fluffy cotton chick or a candy chick can be placed therein.

Daffodil Table.

The table cover can be white over pale may be of crepe paper variety with a daffodil design. In the center of the table have a golden vase filled with daffodils, the bunch tied with a bow of golden ribbon. As souvenirs at each place have little yellow and white baskets filled with bonbons of the same color. Have a pretty little yellow chick poised on the handle of each basket. Daffodil cases may be the receptacles for salted nuts, bonbons, etc. For an evening supper which is not be elaborate this menu would be

Creamed chicken in puff paste cases Yellow Rusks

Chocolate with whipped cream

Mayonnaise dressing Custards and white and gold cake

Games to Play.

The old-fashioned donkey game can be utilized for an Easter game with success. Have a sheet decorated with a gay coiored hen and some chickens. In the center of the sheet have a nest drawn. Give each person a paper egg and a pin and have them, while blindfolded, try to put their egg in the nest.

An Easter hat social is also fun for a group of ladies. Have little candy eggs hidden about the rooms which, when found are to serve as currency at the "millinery store," At this store, which is a decorated table, can be sold dolls' hats, table may be arranged by tissue paper, ribbon, artificial flowers, etc., and if the shop keeper has a ready wit, and some one should be chosen who is gifted in this manner, the bargaining can be amusing indeed. When all have made their purchases, fingers will be busy fashioning the "Easter millinery" and afterwards a prize can be awarded to the one who has made the most fetching creation. The prize could be a cunning little doll's hat with ribbon strings formed over whe so that it makes it into the handle of a basket. In this can be a leaves, hanging to differ- little flower pot with some growing flower, ent lengths above the or the prize can be a box of candy, with a decorative cover of a pretty maid in a reflecting their beauty, big poke bonnet. If a luncheon precede About the edge of the this party the guests can be asked "pool" fairy paper dolls to come attired in head-gear that is dressed in gold and violet unique, historical or effective in some style of headgear were worn, and the prize for the most striking costume was a dainty hat-pin.

Flower Contest.

Now that paper flowers can be bought him books of adventure, not wildly im- using some of the effective Easter cards, piece that will please the children as well ready to put together with ease a flower contest makes an amusing entertainment, particularly if the flowers can be used ribbon extending from the chandelier to afterwards for decorating some festal oc-



A Bunch of Spring Fairles.

shape, the top decorated with water colors which told of the successes of men of in violets, daffodils or Easter lilies. The wording of the bidding may be written on the basket which may be slightly tinted, or the whole may be made simpler by to be found in the shops at this season of Another quaint idea would be to one desire was to see the lands of which fluffy chicks made of cotton, tying a card knotted at intervals to hold in place colhe read. When he grew up and was to about his neck on which the invitation ored egg shells which have been emptied and at the hold in the change for decorating some festal occasion. At one table violets can be made.

At one table violets can be made.

ored egg shells which have been emptied and at the hold in the change of the pays. may be written, or a small box of candy eggs mailed to a friend will prove a delightful puzzle if one word of the invitation is written on each egg so that they have to be arranged properly before one

Decorations.

All the decorations of house and feast This mother had done her duty so far can bear some significant touch. The il-

The first depicts an odd pottery vase filled with lilies, a "Sprite" of Springtime seated on each lily. This can be made into a pretty gift device if wished, the fairies having the names of the guests written on their sprites and each guest taking a lily. Found closely tied to the stem may be a long thin package containnot queens but lay-women who have done ing a gift. These gifts may be pencil holders, flower pins or hat pins.

The white Easter cake is particularly homes for loved ones. Do not let them pretty, ornamented on top with lilies of frosting. Ribbons reach to tie to little with idlers, where the women dawdle flower pots each holding a hidden gift, and through a fashionable day and play bridge ornamenting its top, a paper lily "grow-



An Easter Lily Cake.

of their contents and strung on ribbon in sachet bags would make dainty souvenirs, this way, a knot below each egg keeping or little violet amulets which hang about it from slipping. Easter rabbits at each one's neck and give a subtle fragrance to place with little baskets on their backs one's garments. Another flower game to whist or dance all night, while the heroes, ing" from this gracious root. The gifts can hold Easter egg candy, and the doilles called men by courtesy, devise new ways enclosed in the pots may be larger and of under the plates may be of pure white pieces, giving one to each guest to put

play is to have cheap prints cut into many together after the manner of the popular could include pictures of flowers in some way or other. The same idea could be used at a young people's party having pictures with barnyard scenes, girls feed- Elsie, Deerfield, Ill. ing chickens, and the like.

Another contest for older people which deals with flowers is to give all present little paper booklets cut in flower shape. On different pages can be the names of flowers with space afterwards for a quotation.

For instance, "Rose -- " and the quotation, "A Rose by any other name would smell as sweet," could be written.

"Lily" might be another, and the quotation, "Behold the lilies of the field," etc., could be jotted down.

When all the booklets are filled the difto write the books from which they are quoted. This will be rather difficult so the one who wins the prize, a book on gardening, will feel repaid for her intelligent effort.

An Egg Shower.

cles may be wrapped in egg-shaped packages and each girl friend may be asked to bring some recipe in which "eggs" figure, which surely will not prove diffi-A novel way to present the gifts would be to have the bride-to-be asked to make an angel cake. A huge wooden bowl can be brought in and an egg beater and then a "basket of eggs"—the gifts in their parcels-of white. As she "cracks" each egg and all admire its gift the presents can be put in the bowl for safe keeping, but the laugh that will precede this ceremony, when the bride sees the basket of remarkable eggs, and realizes the nature of the entertainment, will come up to expectations.

The recipes can all be written on cards of uniform size and these can be tied together with white ribbon and will make a pleasing souvenir for the guest of honor to keep.

SHORT CUTS TO HOUSEKEEPING.

This department is opened as a means of exchange of new and successful ideas in homemaking. If you have learned something in cooking, sewing, child raising, fancy work, economy, anything which is helpful, and new, send it in. Twenty-five cents will be paid for every article used, but none will be returned. Keep your suggestions short.

Dear Editor:-Please let me add a few words to help along your "Short Cuts." I have quite a family of little boys and girls all under 10 years, and it used to be such a task to get them all dressed in the morning, and get them all satisfied and off to school in time. So I just devised a plan, so they could help themselves, when they were not in the mood of helping one another. I make all their inside waists to button in the front, also the little girls' skirts can be made to fit just as well, by putting the fullness at the middle of the belt and have it come together in the front.

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Dear Editor:-Many of the readers, undoubtedly prepare a quantity of pie-paste had with one side sheet iron. Get two at a time, (that is, all but the wetting), screw hooks, of brass or iron as you and keep it in a cool place, tightly covered; but how many have ever used it for shortening biscuits, muffins, johnny cake, etc. My recipe for pie-paste calls for two-fifths lard and three-fifths flour mat. If a door casing is near the stove and if my biscuit recipe calls for one the hooks can be screwed slanting into the tablespoon of shortening, I use two and side and the holes show very little when one-half tablespoons of pie-paste, which the screws are removed in summer. readily mixes with the other ingredients.

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BISCUIT AND MUFFIN RULES. No. 7.

BY MRS. ALTA L. LITTELL. E made some baking-powder biscuit at school today with water, and they were actually good," said a little girl who had recently come from a farm where cream and milk were plentiful. "I never heard of such a thing before," she added in a surprised tone. "Did you?"

Many another woman who moves from ferent quotations can be read aloud, and the farm to a town learns, like this young the guests given slips of paper on which girl, that if she hasn't the milk and the cream, water does very well as a substitute.

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You can use the same rule for dumplings by using less shortening, two teaspoonsful being enough.

Remove the greater part of the meat fowl from the kettle, leaving just a little to prevent the dumplings sticking to the bottom, dip your spoon in the broth, and drop the dumplings by the spoonful into the kettle, dipping the spoon each time so the dough, or batter, will slip off easily. When all are in, cover the kettle tightly and boil exactly ten minutes, when they will be done. Never re move the cover to look at them during that ten minutes, as this will make your If you wish to steam dumplings heavy. them instead of boiling, steam 12 minutes without removing the cover. If you observe this precaution you should never have heavy dumplings, providing you care in the mixing and worked used quickly.

A good rule for gems or muffins is two cups of flour, four tablespoonsful of sugar one teaspoonful of salt and two slightly rounding teaspoonsful full of baking powder, sifted together, to which add one four tablespoonsful of melted shortegg, ening and a cup of liquid. For graham gems use half white flour and half graham, unless you like your gems quite coarse. You can substitute corn meal for half the flour and have corn meal muffins, or a cup of entire wheat and have entire wheat muffins. Iron muffin dishes are better to bake these muffins in than tin or granite.

Always sift flour before measuring it. Graham should be sifted to remove the coarse bran which is not easily digested, as will be explained in the next article.

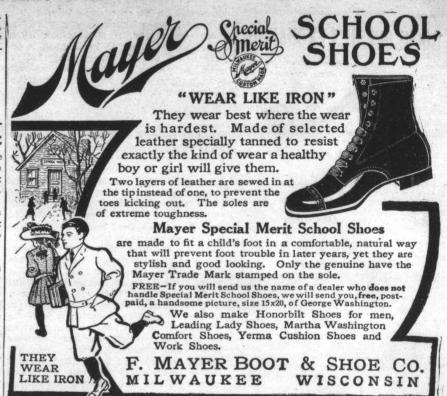
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M. M. N.





OPPORTUNITIES

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Why stunt your life by working hard for a bare living when fruit growing in California offers such splendid opportunities?

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WOMAN AND HER NEEDS

THE FARM OR THE "WORLD"?

Your Children Will be Helped to a Decision by What They Read.

article in a daily paper. It set me to useless than they are now, no matter wondering how many mothers really what they read. know what their children read, or give themselves the slightest concern over the great middle class, should read of better and then expect her to be a happy and matter. Of course, you can not know all things. Let them read, if they must your edaughter reads. No matter how read fiction, such books as "The Minisvigilant you may be, she is sure to read occasionally something you can not know about. A newspaper, a book at a friend's house, an article passed around in school, circulars sent through the mail or dropped on your doorstep, all are likely to find their way into your child's hands without your knowledge, and it is barely possible that your daughter has already absorbed a great many things you did not want her to learn for awhile.

But in spite of this, every mother can exercise a supervision over her daughter's reading, and over her son's as well. Yet I really believe that for every mother who intelligently passes upon her children's reading, there are five who do it only in a perfunctory way and five times five who do not trouble themselves ever to enquire what that story is which Mary or Jack is reading.

A lack of understanding of human nature is in a great measure to blame for Mothers fail to realize how much young people are influenced by what they read. Everyone, at whatever age, is affected by the class of reading in which he indulges, but young people, being so much more susceptible are influenced to a greater degree. As we grow older we grow more discerning, we are able to balance one thing against another and to decide what is wise and what is foolish. Youth knows nothing of such judgment. It swallows everything, and if it is at all impulsive, proceeds to act upon everything it reads.

On this account it is not enough for us to know that our children do not read the trashy and light in books and papers. It is not enough to forbid our boys to read blood and thunder novels, and to burn the "His Only Love" sort of fiction our daughters admire. We must see that they read only what will influence them to be the sort of men and women we desire them to become

A mother wanted her son to become a business man. He was very fond of read- Easter flowers and favors to ald her in can be seated. Tiny vases as souvenirs manner. At a party of this sort the effect ing, and the mother knew in a way that decorating. For an Easter party of fun at each place may hold a small bunch of was very interesting. Quaker bonnets, Instead of surrounding him with books affairs, stories of the brave struggles of men who began at the bottom of a trade or profession and mastered it, she bought him books of adventure, not wildly impossible tales but classics in their way, yet all telling stories of travels by land and sea. The lad read and read of ity. strange countries and peoples until his one desire was to see the lands of which he read. When he grew up and was to decide his vocation, he chose the navy. His mother wept and importuned, pointed to the disadvantages of a life on the sea, and to the good to be gained by going into a business house. But it was The impressionable youthful mind had already taken its bent, and the sea made the strongest appeal.

impure and bad in literature away from may be used as a center piece or on a her boy, but she had given him that side table as preferred. which could only tend to create a roving spirit.

So with our daughters. We want them to be clean-minded, sensible, home-loving, industrious women. Then see what they read only that which will tend to dignify labor. Give them to read of the lives of women who have been workers, not queens but lay-women who have done ordinary things, such as bringing up children and keeping house and making homes for loved ones. Do not let them read the popular fiction which has to deal with idlers, where the women dawdle through a fashionable day and play bridge whist or dance all night, while the heroes, called men by courtesy, devise new ways of spending the money their hardworking

HAT Does Your Daughter Read?" forbears amassed. Leave books of this was the striking headline which sort to the people who are described in caught my eye recently above an them and who could not become any more

Our daughters, the daughters of the

ter's Wooing," where the heroine and her better class, essays, travels to some exall may be included in their reading.

land, of the beauty and rest and peace of a life lived "far from the madding throng's ignoble strife." Do not fill her mind with fiction about the broadening influence of city life, of the advantages of living among one's fellows, of the plays to be seen, the music and lectures to be heard in a metropolis, the parties one may attend and the gay life generally, contented country dweller.

DEBORAH.

ENTERTAINING AT EASTER BY MARJORIE MARCH.

more, when the rising of spring and favors at an Easter function. its wealth of flowers bespeaks the glory of growth's reappearance. The hostamiss, for there are Easter traditions a-

HE calendar gives us Easter once makes a novel idea for the distributing of Suggestions for Tables.

ess who plans some sort of festivity dur- ive mass in the center of a spotless white ing the Easter holidays can not go far cloth, look beautiful for an evening affair, tall glass candlesticks with white tapers plenty to help her with novel ideas, and rising from their midst. A single white

lily, real or artificial, can be at each cover, and an Easter card tied to the flower with white ribbon can show the guests their places. White baskets with frills of white paper make very pretty bonbon dishes, and ices, cakes and alal fancy touches to the feast may be served in white lily cases.



beautiful luncheon table may be arranged by having lace doilies over violet tinted silk. In the center of the table a round mirror edged with smilax and small bunches of violets may reflect a "shower bouquet" of violets which hang from the chandelier. Long streamers of pale tinted violet ribbon may hold bunches violets with their leaves, hanging to differmirror but all, of course, reflecting their beauty. About the edge of the

violets, and the bonbon dishes may be tall stemmed glasses resting on little violet edged mats, or on smaller doilies over violet silk.

A Nest Table.

A nest of pretty grasses filled with co!ored eggs makes an attractive center

The dessert may be a gelatine dessert mother were capable housekeepers and which has been tinted different colors and loved the long, white seam. Poetry of the moulded in egg shells. Turn out on & decorative platter and pile whipped cream tent, history, and a good home magazine about the edge. Pretty little Easter cakes may be served with this dessert. If you want your daughter to stay on small cakes and in the center of each the farm, see that what she reads extolls stick half an egg shell, with a ragged the beauty and comfort of life in the edge, the ragged edge uppermost. In country. Let her read of what women this little vase place a bunch of flowers, have accomplished with a few acres of or, if preferred, a fluffy cotton chick or a candy chick can be placed therein.

Daffodil Table.

The table cover can be white over pale yellow silkoline, or if a hostess desires, may be of crepe paper variety with a daffodil design. In the center of the table have a golden vase filled with daffodils, the bunch tied with a bow of golden ribbon. As souvenirs at each place have little yellow and white baskets filled with bonbons of the same color. Have a pretty little yellow chick poised on the handle of each basket. Daffodil cases may be the receptacles for salted nuts, bonbons, etc. For an evening supper which is not to be elaborate this menu would be

Creamed chicken in puff paste cases Yellow Rusks

Chocolate with whipped cream Lilies and their leaves laid in an effect- Hard boiled egg salad with Lettuce and Mayonnaise dressing

Custards and white and gold cake

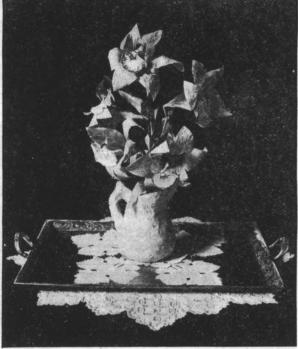
Games to Play.

The old-fashioned donkey game can be utilized for an Easter game with success. Have a sheet decorated with a gay colored hen and some chickens. In the center of the sheet have a nest drawn. Give each person a paper egg and a pin and have them, while blindfolded, try to put their egg in the nest.

An Easter hat social is also fun for a group of ladies. Have little candy eggs hidden about the rooms which, when found are to serve as currency at the "millinery store." At this store, which is a decorated table, can be sold dolls' hats, tissue paper, ribbon, artificial flowers, etc., and if the shop keeper has a ready wit, and some one should be chosen who is gifted in this manner, the bargaining can be amusing indeed. When all have made their purchases, fingers will be busy fashioning the "Easter millinery" and afterwards a prize can be awarded to the one who has made the most fetching creation. The prize could be a cunning little doll"s hat with ribbon strings formed over wire so that it makes it into the handle of a basket. In this can be a little flower pot with some growing flower, ent lengths above the or the prize can be a box of candy, with a decorative cover of a pretty maid in a big poke bonnet. If a luncheon precede party the guests can be this "pool" fairy paper dolls to come attired in head-gear that is dressed in gold and violet unique, historical or effective in some Gainsborough hats, old-fashioned creations, sunbonnets and every imaginable style of headgear were worn, and the prize for the most striking costume was a dainty hat-pin.

Flower Contest.

Now that paper flowers can be bought piece that will please the children as well ready to put together with ease a flower as the grown-ups. If the decorations are contest makes an amusing entertainment, desired elaborate, have strings of baby particularly if the flowers can be used ribbon extending from the chandelier to afterwards for decorating some festal ocmail in a small box one of the dear little the four corners of the table, these ribbons casion. At one table violets can be made. fluffy chicks made of cotton, tying a card knotted at intervals to hold in place colat another daisies, at another carnations,



A Bunch of Spring Fairies.

she must be careful of what she allowed and pleasure the invitations may be sent him to read. But she made one mistake, out on cunning little cards cut in basket shape, the top decorated with water colors which told of the successes of men of in violets, daffodils or Easter lilies. The wording of the bidding may be written on the basket which may be slightly tinted, or the whole may be made simpler by using some of the effective Easter cards. to be found in the shops at this season of the year, on which to offer ones hospital-Another quaint idea would be to about his neck on which the invitation ored egg shells which have been emptied and at the head table, roses. may be written, or a small box of candy eggs mailed to a friend will prove a delightful puzzle if one word of the invitation is written on each egg so that they have to be arranged properly before one can read the message.

Decorations

All the decorations of house and feast This mother had done her duty so far can bear some significant touch. The ilas she saw it. The trouble was that she lustrations show a pretty center piece for did not see far enough. She had kept the an Easter luncheon, and a cake which

The first depicts an odd pottery vase filled with lilies, a "Sprite" of Springtime seated on each lily. This can be made into a pretty gift device if wished, the fairies having the names of the guests written on their sprites and each guest taking a lily. Found closely tied to the stem may be a long thin package containing a gift. These gifts may be pencil holders, flower pins or hat pins.

The white Easter cake is particularly pretty, ornamented on top with lilies of of their contents and strung on ribbon in sachet bags would make dainty souvenirs, frosting. Ribbons reach to tie to little flower pots each holding a hidden gift, and ornamenting its top, a paper lily "growvaried shape and kind, but either idea paper, cut in egg shape.



An Easter Lily Cake.

this way, a knot below each egg keeping or little violet amulets which hang about it from slipping. Easter rabbits at each one's neck and give a subtle fragrance to place with little baskets on their backs one's garments. Another flower game to ing" from this gracious root. The gifts can hold Easter egg candy, and the doilies play is to have cheap prints cut into many enclosed in the pots may be larger and of under the plates may be of pure white pieces, giving one to each guest to put

together after the manner of the popular

pictures with barnyard scenes, girls feed- Elsie, Deerfield, Ill. ing chickens, and the like.

Another contest for older people which deals with flowers is to give all present little paper booklets cut in flower shape. On different pages can be the names of flowers with space afterwards for a quotation.

For instance, "Rose --" and the quo-

"Lily" might be another, and the quotation, "Behold the lilies of the field," etc., could be jotted down.

When all the booklets are filled the difto write the books from which they are quoted. This will be rather difficult so the one who wins the prize, a book on gardening, will feel repaid for her intelligent effort.

An Egg Shower.

cles may be wrapped in egg-shaped packages and each girl friend may be asked to bring some recipe in which "eggs" figure, which surely will not prove diffi-A novel way to present the gifts would be to have the bride-to-be asked to make an angel cake. A huge wooden bowl can be brought in and an egg beater and then a "basket of eggs"—the gifts in their parcels-of white. As she "cracks" each egg and all admire its gift the presents can be put in the bowl for safe keeping, but the laugh that will precede this ceremony, when the bride sees the basket of remarkable eggs, and realizes the nature of the entertainment, will come up to expectations.

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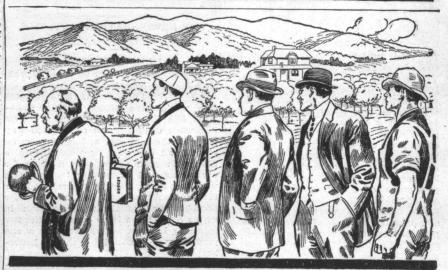
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Mrs. A. T., Elwell:-You should be able to purchase rennet in any good drug store. If the druggist hasn"t it, ask him if he can not get it for you. To one gallon of milk use one cubic centimeter of rennet. This amount can be varied according as one wishes the cheese to ripen quickly or slowly, if quickly add more, if slowly add

Dear Editor:—Will some one plase tell me what kind of goods to buy for a confirmation dress, and how it should be made to be worn in May?—L. N., Metropolitan.

Any pretty, thin white goods would be good, muslin, India linon, handkerchief linon, swiss, organdie or any soft, white, girlish material that you can afford. The style of making would depend on your age and size. Why not go in a store with your mother when you go to town and look in the style books and pick out what would be becoming to you? Use plenty of lace and insertion. If you are 13 or 14 years old and small, have the skirt two inches below the bend of the knee.

Mrs. K .: - No directions were given for making the "Chanticleer Egg Cozy." The article simply says a girl made them in the shape of a rooster's head, of two thicknesses of white flannel, cut double and wadded with cotton batting. the comb and wattles were scarlet.

Mrs. M. M. P., Mt. Clemens:-For your year and a half old baby, why not get one of the pretty straw bonnets? They will be much worn and do not need to be laundered. You can get a simple one with just a pleating of ribbon around the edge, or a more fancy one with rosettes of ribbon and small flowers. I get a simple wash coat of pique, linen or her some such cloth. My theory for babies early in the morning, and isn't 'mussing who walk, or will shortly, is to buy clothes which may be tubbed every week if necessary. Then they can run and play and not be worried about "keeping out of the dirt."

Mrs. G. B .: - If it were me I would take a couple of packages of brown Diamond Dyes and boil them down like shoe polish. Go over the hat, let dry, and go over it again. I think you will find it all right. If I am not mistaken they have the dye for straw. To give your clothes a nice gloss, shave a little paraffine, about the of powdered borax into the starch.-Mrs. W. H. M.

Reader:-First of all, have your carpet color. Boil them down about like shoe I think a nice wide stripe of mother. brown helps to darken the carpet. That may take more dye. Take as many threads as you want the stripe in width and keep it all the way through your carpet so the stripes will be even. Boil each color by itself. I striped 25 yards like this and it looked fine.—Mrs. W. H. M.

THE HELPFULNESS OF POETRY.

BY MARY ROLOFSON.

rized them, we have hidden them away in our hearts for safe keeping to be used when we needed them.

and these their music, sweet, melodious strains that aesthetic sensibilities of all such people. soothed and helped to heal.

haps-and all at once some helpful line or couplet comes feeling its way into your thot? Or, maybe, it is a bright, little fancy, with nothing to recommend it to your notice but its beauty, and that is quite enough, and it comes dancing and laughing, and smiles up at you from the ironing board. It cheers you like the smile of a friend and you are so glad it came to you. Your work goes faster and

Let us get into the habit of using these helps as we go along. Many are the me-chanical devices for making work easier and for making life more comfortable and enjoyable. Why should we not add to them the inspiring and uplifting influences of poetry-such poetry as has "power to quiet the restless pulse of care?" As you bend over the mendingbasket, or the wash tub, tired, and perhaps disheartened, look into the storehouse of your heart and see if there are not some beautiful thots lying there that ought to be taken out and used. You will find them there, surely. If you do not, if that treasure-house is empty, begin as soon as possible to enrich it with the choicest thots that the poets have given us, and you will find your heart growing lighter and your step firmer. You will realize that you are being lifted up to a higher place where you can look down upon vexations and your burdens and up with humility and trust into the face of

THE NEW "NEATNESS" VS. THE OLD.

BY HELEN MORGAN.

HO is entitled to be called a neat

tidy housekeeper? This question, if asked 40 years ago, would have elicited a reply somewhat like this: "The woman who gets work done up and out of the way around' all day with it; whose house is always in good order, with a place for everything and everything in its place

who keeps her tinware scoured and her stoves blackened and her kitchen floor scrubbed and spotless; the woman in whose home there is no dust nor dirt nor grime to be seen anywhere; such a one properly may be called a neat, tidy housekeeper." The same question, if put to well-in-

formed persons at the present time, would bring very different answers from the one size of a hickory nut, and a small pinch given above and these replies would of powdered borax into the starch.—Mrs. show how standards have changed, and how our idea of what is included in the words neatness and cleanliness have experfectly clean and tacked down. Have panded. To merit the high title of a ready some Diamond dyes the color you neat, tidy housekeeper is a more serious prefer, about two packages for each undertaking for the woman of today than it was for her mother or her grand-

When we say now that a house is clean and well-kept we mean that the sanitary conditions in it and around it are what they should be; that thoro investigation would not discover a damp, musty cellar, or a foul-smelling drain, or dark, unaired sleeping apartments. The old neatness concerned itself mainly with pleasing the eye and tickling the palate; the new neatness acknowledges the vigilant, sensitive nose as the highest master.

The new neatness condemns the old-"Such songs have power to quiet the fashioned carpet as a dust and germ restless pulse of care.

And come like the benediction that follows after prayer."

We all know what kind of songs these not the fading of upholstery and drapare, we have read them, we have memo- eries, but freely admits the sunshine, which is nature's own disease router and disinfectant.

While striving to live up to the more And we have needed them and have exacting requirements of the new order, gone to our treasure-house and drawn the modern woman of necessity rejects them forth in all their undimmed beauty, as unimportant certain tenets of house-How sweet, how precious, how comfort- keeping faith that her grandmother reing they were-these songs fresh from garded as essential. It used to be conthe soul of the poet, full of sympathy and sidered the very acme of neatness to tenderness, and peace, and strength, make a bed just as soon as the sleeper Some of them we learned when we was out of it. The modern mind insists no beauti- that a thoro airing is of far ful than when we put them away because quence than so speedy a putting of the we understand them better now. Some room to rights. The modern woman does we came across when we were particu- not scrub and scour and polish as much larly troubled and they comforted us, and as did the faithful devotee of the old we put them away gratefully, deeply con- order, but she is more strenuous in her scious of how much we owed to them and insistence upon clean air and pure drinkto their author. Some we took to our ing water. The grandmother was neat hearts at a time of bereavement, when because it was the thing to be neat; all our sorrow lay heavily upon us, and we nice, refined people were neat, and neatwalked thru the valley of the shadow to ness and cleanliness were grateful to the The granddaughter, who is the matron And sometimes these poems will not of today, is neat in a broader, deeper, and stay hidden away waiting for us to seek more thoro manner. The considerations them out. Now and then one comes which influenced her grandmother are straying forth like a timid child hoping still potent, and further, she realizes that for a welcome. Have you not been in the intelligent neatness and cleanliness are midst of your daily work-ironing, per- vitally necessary to health and well-being.

Home Made Gas From Crushed Stone and Water



UST suppose, when company comes, you could pull a little chain and turn on a flood of

light in a cluster of globes hanging from the parlor ceiling.

And suppose, a little later you could pull another little chain and turn on a beautiful light in a colored dome hanging over the dining room table

Pull still other chains and turn on lights in your bed rooms, your

kitchen, or your cellar.

Pull another and fill your barn with light that would show up every hair, straw or buckle as plain as these things would show by daylight. And suppose you made all the gas

for these lights yourself, right on the place. Made it so easy that the work required only fifteen minutes of your time once a month.

Make it so cheaply that the light costs you no more than kerosene.

And suppose you actually used this same home-made gas as fuel for

cooking on hot days, or when you are in a hurry.

In other words, suppose you had a little acetylone gas plant built for country home

A plant that would mean no more washing or breaking of chimneys—no soot or grease to fight with—no wicks to trim, no oil to spill or burn.

Picture the advantages in your mind's eye—stop and think of the safety, comfort,

dred and seventy-six thousand country home owners simply followed the lead of over twenty million city people who have used gas so long that they don't know what an oil Like these city friends, you wouldn't keep your oil lamps if city gas could be piped to your place, and this new rural gas, "Acetylene," beats city gas all hollow in forty ways

forty ways.

Unlike city gas, your Acetylene will not be poisonous to breathe—you can sleep all night in a room

with an open burner with no injurious effects whatever.

Volume for volume, your Acetylene will give ten times more light than your city cousin gets from the

best city gas.

Then when you use it as a fuel, your Acetylene will be delivered right in your cooking appliance, where it will supply heat on tap that you can regulate with a thumb

The crushed stone you will use in making your Acetylene is known commercially as Union Carbide, and is sold at factory prices and shipped direct to you from the company's own warehouse located in your district.

Union Carbide won't burn
—can't explode, and will keep
for years in any climate.
Once a month you will have
to drop a few pounds of Union

Carbide in one part and a few gallons of water in another part of a small tank-like machine that sets in your basement or in an out-building.

Genuine Acetylene is pro-

duced from just Union Carbide and plain water.

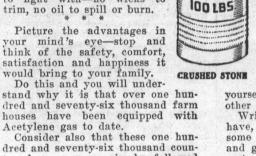
Won't you let us tell you how little it will cost to make

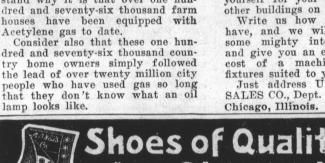
this wonderful light and fuel yourself for your home and all the other buildings on your place?

Write us how many rooms you have, and we will send you free some mighty interesting booklets and give you an estimate as to the cost of a machine and lighting fortunes suited to your requirements.

fixtures suited to your requirements.

Just address UNION CARBIDE SALES CO., Dept. C — 34 Adams St.







ON CARBID

If your dealer cannot supply you with Wells Shoes, you will be rewarded by writing M. D. Wells Company, Chicago. "ENTERPRISE" No. 750 Price, \$8.50 BONE, SHELL AND CORN MILL

Just the mill for farmers, poultrymen and all who keep poultry. Cracked grain, ground bone and shell is the proper food to feed to increase the egg production, and with one of these mills you can turn grain and waste materials into food for your poultry. The "ENTERPRISE" Mill is thoroughly reliable. Runs easily, is strong, durable and doesn't get out of order. Look for the name "ENTERPRISE" on the machine you buy. Mill shown in cut weighs 60 lbs. Grinds DRY bones, Oyster, and other shells. Capacity 1% bushels of corn per hour. Illustrated catalogue free. Our famous recipe book, the "ENTERPRISING HOUSEKEEPER," sent anywhere for 4c in stamps. THE ENTERPRISE MFG. CO., Dept. 42 PHILADELPHIA, PA.

describes Sewing Machines from \$8.45

Our

Catalog

Potatoes now selling for 15c. Dealers claim over three-fourths of crop in this locality has been marketed; Considerable complaint of their not keping well. Apples bring 75c; butter, 25c; eggs, 22c; dressed pork, 11c. Almost impossible to find eattle fit to butcher. Hay is retailing from feed stores at \$20 a ton.

Eastern Oceana Co., March 9.—Our winter still lingers in the lap of spring. We have had steady sleighing now for three months and people are still going with sleighs. March came in like the proverbial lamb, but has turned cold with the fields nearly all covered with snow. Where the ground got bare our wheat, rye and clover looks promising; also the alfalfa. Very few cattle and hogs on feed. Farm help rather scarce and wages high. Potatoes are a drug on the market, selling for 20c per bu. Corn scarce, selling at 45c per crate of ears; seed corn \$1.50 per bu; wheat, \$1.15; oats, 55c; rye, 72c; apples, 25@50c; butter, 20c; eggs, 17c. Farmers are still picking up a few logs for lumber, although this country is short of timber, many farmers having to buy wood to burn.

Branch Co.—Wheat came from beneath its winter coat of ice and snow early in

logs for lumber, although this country is short of timber, many farmers having to buy wood to burn.

Branch Co.—Wheat came from beneath its winter coat of ice and snow early in March, looking fairly well, but the continued freezing and thawing of the past week has been anything but favorable for it. Auction sales are numerous and live stock and hay selling high. But little stock being fed for market and the local market for corn very low, millers being the only buyers and they offer but 52c for 70 lbs, of ear corn, but it is noticeable that they retail the same—according to their market reports in the local papers, at 80c per bushel, and coarse corn meal at \$30 per ton, bolted meal at 3½c per lb, while a bushel of corn will buy two or three lbs. of corn products in the form of breakfast foods. Still the former is blamed for the high cost of living. Wheat, \$1.14; oats, 44c; butter, 22c; eggs, 18c; cloverseed, \$6@.6.50; hogs, alive, 8@.9c; dressed, 11½.@12½c.

Northern Isabella and Southern Clare Co.'s, March 12.—Snow nearly gone and the roads in bad condition for hauling loads. Wheat has wintered well, as it has been covered all winter with snow and good prospects for a crop. Hundreds of farmers are disappointed in the price of beams as they expected \$2.50 per bu, at this time of year after holding them all winter. Better demand for potatoes than a month ago. This locality is not considered a potato country. Auction sales numerous and everything selling well, especially horses, hogs and cows.

Kent Co., March 9.—March came in like a lamb all right, and has given us but two frosts to date, good ones to sow grass seed on. Fall sown grain and young clover proved the winter to have been an ideal one for these crops, though the winter was unusually cold and long. Stock is in good condition and selling high as ever. Milch cows and good farm horses are especially good sellers. No spring pigs to date and few hogs of any kind.

Gratiot Co., March 8.—This county experienced some of its coldest weather during the last week

kind.

Gratiot Co., March 8.—This county experienced some of its coldest weather during the last week in February. The 26th dawned with a rising thermometer and the day was rainy. From Feb. 27 to March 6, p. m., extremely warm weather prevailed. The snow and ice disappearing as by magic, but without any very high water. Wheat is laid bare for the first time since early December, and is as green and fresh as though it had never seen frost. Coarse feed is in good demand. Stock of all kind sells at a high figure at auction, and hogs are al-

and is as green and fresh as though it had never seen frost. Coarse feed is in good demand. Stock of all kind sells at a high figure at auction, and hogs are always a a premium,

Genesee Co., March 4.—With the beginning of this month warmer weather has prevailed and everybody seems pleased to see it. We have had sleighing since about Thanksgiving, with but very few days interruption. Indeed, some sleighs have been out continuously, aitho there has been occasionally a day when the snow in the road was pretty thin. Judging from present indications a prosperous season is ahead. Farmers are encouraged from the past and are making no great complaint over the high prices. Farm help is as scarce as ever and comes at no less a wage. Land values are steadily advancing to keep pace with other things. Increasing difficulty in getting help is adding to the number of tenant farmers every year. Market quotations: Wheat, \$1.21; corn, 66c; beans, \$2.05; oats, 48c; potatoes, 45c; butter, 25c to 30c; eggs, 26c; dressed hogs, 11½c; dressed beef, \$5.50@7; baled hay, \$12@14. Loose hay reached the high water mark yesterday with \$20 per ton paid on the local market for choice timothy.

RAILROAD INSTITUTES.

Supertintendent Taft, of Michigan Farmers' Institutes, announces the following "railroad institutes," from March 28 to April 2 inclusive:

Monday, March 28.—Holt, 8:05 a. m.;

lowing "railroad institutes," from March 28 to April 2, inclusive:

Monday, March 28.—Holt, 8:05 a, m.;

Mason, 10:00 a. m.; Lesile, 1:00 p. m.;

Rives, 2:30 p. m.; Jackson, 4:00 p. m.

Tuesday, March 2.—Concord, 8:00 a. m.;

Homer, 9:30 a. m.; Tekonsha, 11:00 a. m.;

Union City, 1:10 p. m.; Colon, 2:30 p. m.,

Centerville, 4:00 p. m.

Wednesday, March 30.—Three Rivers, 8:00 a. m.; Jones, 9:30 a. m.; Vandalia, 11:00 a. m.; Cassopolis, 1:15 p. m.; Barron Lake, 3:00 p. m.; Niles, 4:10 p. m.

Thursday, March 31.—Pokagon, 8:00 a. m.; Dowagiac, 9:30 a. m.; Glenwood, 11:00 a. m.; Dowagiac, 9:30 a. m.; Glenwood, 11:00 a. m.; Decatur, 1:10 p. m.; Lawton, 2:30 p. m.; Mattawan, 4:00 p. m.

Friday, April 1.—Comstock, 8:00 a. m.;

Galesburg, 9:30 a. m.; Ceresco, 11:00 a. m.; Parma, 4:00 p. m.

Saturday, April 2.—Eaton Rapids, 8:00 a. m.; Charlotte, 9:30 a. m.; Nashville, 10:50 a. m.; Hastings, 1:30 p. m.; Middle-ville, 3:00 p. m.; Caledonia, 4:15 p. m.

The train will stop from 60 to 90 minutes for an Institute at each of the places scheduled above. After a number of short addresses the exhibits in the baggage cars will be explained and demonstrated.

Our New Double Wing **Drop Head Cabinet**

THIS DOUBLE WING DROP HEAD CABINET is an entirely new patented feature, made exclusively for our Minnesota Model "A" Sewing Machines. A place for everything you use—the most compact and attractive of all sewing machine cabinets. Right wing velvet 'lined to protect tools and attachments. Left wing partitioned to hold thread, patterns, fashion books, etc. When closed these wings lock automatically over the four full size drawers. No key required.

The Minnesota Model "A" is a machine with the WORKS. The head is as perfect a piece of mechanism as a watch and is guaranteed by us for twenty years. It is the same size as all high grade family sewing machines for which dealers and agents ask from \$40.00 to \$60.00.

THE WOODWORK OF ALL OUR

ask from \$40.00 to \$60.00.

THE WOODWORK OF ALL OUR VARIOUS STYLES OF MODEL "A" SEWING MACHINES, as well as the style shown here, is of the very best grade of quarter sawed oak throughout. The stand of the Minnesota Model "A" is not only the best looking stand on the market, but is the easiest to keep clean and the lightest running. running.

running.

OUR SPECIAL SEWING MACHINE CATALOG is a book you must have if you contemplate buying a sewing machine. It shows all our various models, many of them in colors just as they appear; illustrates the various parts, explains fully our twenty-year guarantee, our three months' trial contract, and describes the uses of all the special attachments. Fill out this coupon carefully with your name and address. The very day we receive it we will send you a free copy of our special Sewing Machine Catalog.

Sears, Roebuck and Co.



\$948 Profit from 4 Acres 3 Crops a Year Without Wearing Out Soil

An Alabama farmer planted four acres of land in Irish potatoes. They netted him \$468—or \$117 an acre. He then planted the same four acres in sweet potatoes which netted \$480. Total, \$948 Profit on Four Acres of Land, which yielded in addition a thrifty forage crop.

Come Now and See Such Crops Growing While Your Land is Still Frost-Bound

P. O. Box No.

Learnwhat the energetic Northern farmer can do in a country where there averages 312 working days a year. No long winters to tax your resources—and land so rich that you can raise three crops a season without wearing it out.

Banner Grass Country of the United States—There is ten months' good pasturage during the year. Stock thrives on grazing alone; there is always abundant water, no drouths and no blizzards. You don't need costly barns for winter housing—you needn't spend time and money raising feed to carry your stock through the winter.

Send for Our Booklets and read hundreds of G. A. PARK. Gen'l Immigration and Industrial Act. Louisville & Nashville R. R. Room 213, Louisville K.

G. A. PARK, Gen'l Immigration and Industrial Agt., Louisville & Nashville R.R., Room 213, Louisville, Ke



CURE DISCOVERED FOR



If one of these dreadful diseases has you in its clutches, if doctors, douches, smoke powders, inhalers, etc., have failed to cure you—if your days are one long agony and your nights sleepless tormentif friends turn away from your sickening, foul breath—than take heart and write ME. My wonderful "Home Treatment", discovered after years of careful study, has cured when everything else has failed. It will instantly cleanse your system of impurities, relieve dripping in throat and heal scabs in nose. It will set you free from racking coughs, awful fainting spells, frantic gasping, nauseating hawking and spitting, and it will kill consumption germs which breed rapidly in the foul silme of catarrh and asthma.

Send your name and address today and I will mail you a 50c package of my Remedy with book, in plain wrapper, both absolutely FREE, Don't put it off. Write today.

T. GORHAM, 601 Gorham Bldg. Battle Creek, Mich.

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Destroys Worms—Aids Digestion

It's at marketing time that you reap the full benefit of feeding Sal-Vet. It rids your stock of worms and all worm troubles—prevents loss of lambs by parasitic infection—enables you to raise healthier lambs, finer sheep with more wool and better mutton. Especially effective against stomach worms in sheep and hogs.

We Prove it Before You Pay — Send No Money

Sal-Vet saves your shoats and enables you to raise big hogs. It makes bigger steers and puts cows in condition to give more and richer milk. It will keep the digestive organs of all your stock in perfect condition, so that what they eat goes to make profit for you.

Animals cannot fatten and thrive when they have worms. These parasites eat the feed that should go to nourish the animal. Get rid of the worms—Sal-Vet kills worms. It will put your stock in prime condition and keep them immune from parasitic infection.

Sal-Vet is a highly medicated salt that is easily fed-the animals take it so readily that with it they doctor them-selves. Every cent you spend for Sal-Vet will be returned to you ten fold by your stock.

Feed it to your stock and get the big profits your hard work entitles you to.

Agricultural Experiment Station.

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SHER WINN PAINTS & VARNISHES

S-W Commonwealth Barn Red

A bright, handsome red for painting barns, outbuildings, fences, corn cribs, etc. It works freely under the brush, has great covering capacity and wears well. Is put up full U. S. Standard Measure, and so is more economical than the many short measure, poor quality barn paints sold at a low price.

Address all inquiries to 669 Canal Road, Cleveland, O.

In Canada to 639 Centre St., Montreal.

Sherwin-Williams Paint (Prepared) SWP

is made of Pure White Lead, Pure Zinc and Pure Linseed Oil, with the necessary coloring pigments and driers. All combined in correct proportions with the aid of powerful machinery of our own special design. There is no better paint made than S. W. P. It will cover more surface, look better and last longer than cheap mixed paints or hand mixed lead and oil. Put up full U.S. Standard Measure.

S-W Wagon and Implement Paint

A durable oil gloss paint made especially to withstand hard usage. There is the greatest economy in keeping your wagons and implements well painted, to protect the wooden parts against dampness and cracking and the iron and steel parts against rust. It brushes out evenly, covers well and is very permanent in color. Your farm equipment will last twice as long if kept well painted and will give you better service all the time.

S-W Brighten Up **Finishes**

Under this label we put up a complete line of paints, varnishes, stains and enamels for every use or surface in and around the home. Not one product for all purposes, but a number of different products, each one made especially for a particular purpose and the best for its purpose. Tell your local S-W Agent what you want to finish and he'll give you a Brighten Up Finish that will do the work well.

PRICE \$8

Freight Prepaid

For the Complete Spreader, guaranteed to beat them all. Always the leader, itnow jumps many more years ahead of the imitations, with 19 improved features, all found on no other spreader. Yet, note the prices, delivered to you, freight prepaid: In Michigan, \$33.50; in Indiana or Ohio, \$85.00; in Illinois, \$86.50; in Iowa, Minnesota, Wisconsin or Missouri, \$90.00. Write for prices for other states. These prices equal or beat prices asked for other spreaders—yet others are makeshifts when compared with the latest improved—

Complete -with Trucks, Pole and Hitch, Traction Band and every-

\$83.50

Machine

\$9.75

Detroit-American—No Money Down Cash or Credit

Made in all sizes. More steel used than in any other spreader; cylinder all steel; steel rake and end gate; simplest feed—six changes made from seat; the only direct chain drive—no gears; lightest in draft. Proveit. Try one free.

Our Wagon-Box Spreader, \$42.50 prices on the right terms. Shows and prices the original Tongueless Disc and the finest line of Cultivators, too. Write for book today.

Delivered in Michigan and only a trifle more American Harrow Co., 1013 Hastings St., Detroit, Mich.

in other states. The limit of big value in a box spreader. Guarantee, trial, credit, all go on this, too.

FREE BOOKS—The best published on value of manure; how to spread, etc., and how to buy at the right prices on the right terms. Shows and prices the original Tongueless Disc and the finest line of Cultivators, too. Write for book today.

WORK OF TWO With Iron Age Riding Culti-vators. You can do it easier and better, because they are built on these that make this possible. Hoss are under perfect control. Can regulate depth and keep hoes desired dis-BATEMAN MFG. CO., Box 104C GRENLOCH, N. J.



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Which is the Better



3 Years After Laying?

A composition of tar paper roofing which dries out in a few months, rots, and is a constant fire menace—or a galvanized, fire-proof Edwards Steel Shingle Roof which outlasts composition roofing six times and wood shingles four times.

Yet Edwards Steel Shingles cost half as much as best cut wood shingles and about the same as high-grade 3-ply prepared roofing.

Edwards "REO" Steel Shingles Easy to Put On-Cheapest Fire Insurance

Come in stamped sheets of finest Bessemer Steel, 5 to 10 feet long, covering width 24 inches, either galvanized or painted. Can be laid with hammer and nails. No soldering—no tarring—no trouble.

\$10,000 Guarantee Bond Against Lightning. We will refund amount paid for our steel shingles if your roof is damaged by lightning. Buy at Factory Prices. We are largest makers of iron and steel roofing and pay the freight on all Steel Shingles: Plain, Corrugated, V-Orimp Roofing; Imitation Brick Siding, etc. Send for our lowest factory prices delivered, also for free catalog No. 250. Write today.

The Edwards Manufacturing Co.

The Edwards Manufacturing Co. 220-250 Lock Street [11] Cincinnati,

GASOLINE PUMPING ENGINE

for Pumping Large Quantities of Water, Irrigating, Draining, Pumping out Mines, Quarries, Excavations or other places where a compact, powerful and low priced pumping outfit is wanted.

This Back-Geared Pumping Engine with Stuffing Box, asshown, ready to receive pipe connections, and capable of raising 260 barrels of water per hour to an elevation of 100 feet, or proportion, at quantities to any height. F. O. B. Chicago Purpose Special for

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A complete pumping outfit assembled in one compact machine ready to receive the well connections and go to work just as soon as they can be attached. Cylinder, pipe and rod all fitted ready to screw together, for any lift from 25 feet to 100 feet, furnished for 45.

This is an emergency outfit which can be shipped on an hour's notice and can be set up in complete working order within an hour after it is received.

This engine was specially designed for pumping. It can also be used for running a grinder, fodder cutter, saw or other light machinery; but, where operating machinery is

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DON'T SHEAR SHEEP WITH HAND SHEARS It is slow—you don't get all the wool—you cut the sheep—and you make hard work of it for yourself. Do your shear— TEWART It must please and satisfy you or you can return it and ing with this STEWART We will refund all you said. Price

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This is the great enclosed gear shearing machine you hear so much about. Every gear is file hard, is enclosed, protected and swims in oil, doing away almost entirely with friction and wear. This machine turns easy, shears fast and gets all the wool. IT MEANS 20 CENTS WORTH MORE WOOL FROM EVERY SHEEP, Your dealer can supply this machine, or send \$2.00 and we will ship C.O.D. for belance. Write for our new 1910 book, "More and Better Wool." It is FREE. Send for a copy today.

Chicago Flexible Shaft Co. 115 La Salle Ave. Chicago











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S-W Metalastic No. 2

A metal protective paint all ready to use. Is made of a combination of Graphite and other materials and Pure Linseed Oil, and has greater durability than many of the socalled graphite paints. It dries rapidly and gives a hard, impervious paint film that effectively protects the metal beneath. Just the paint to use on the metal parts of windmills, farm machinery, metal roofs, spoutings, iron fences and, in fact, on all metal surfaces exposed to the weather.

S-W Buggy Paint

will make your old buggy look like new. This is a Varnish Gloss Paint made to stand wear and tear and outside exposure. It colors and varnishes at one operation and vehicles finished with it can be washed without injuring the gloss or durability of the paint. S-W Buggy Paint is a high quality product and should not be confused with the many cheap mixtures on the market. Comes in full measure cans; nine handsome

S-W Creosote Paint

is a moderate priced paint, just the paint for painting farm buildings, outhouses, fences, bridges, etc., in fact for protecting all kinds of rough wooden structures from the wear and tear of the weather. It is of splendid quality, spreads easily under the brush and wears well. It contains Creosote, which prevents the decay of the wood and has a very sanitary effect in buildings where poultry, horses and stock are kept.

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Write today for the one you need "Paints and Varnishes for

the Farm" Full of valuable information as to the uses and economics of Paints and Varnishes.

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Now-Right Now you're thinking Write Galloway today about a Manure Spreader about it again. Don't stop till you



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Twill write any of my agreements—I do write 'em, every one of 'em. Ever think of that? Think it over then. If the Galloway were not exactly as good or better than I claim it is, could I hope to escape utter smash-up? You know I couldn't stay in business with my written claims and agreements if I didn't have the spreader to back me up.

Well then, won't you take my advice, accept my invitation, fix it any way you choose but get your name onto a slip of paper or a postal eard and send it to me. Not next week—not next Saturday—not tomorrow. Do it quick. Now is the time—Now. Then you'll be ready for the spring work.

By the way, ask for my proposition. It might pay for your spreader

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THE MICHIGAN FARMER.

DETROIT WHOLESALE MARKETS.

March 16, 1910. Grains and Seeds.

Grains and Seeds.

Wheat.—The trade largely depends upon weather conditions and so prices are fluctuating according as the weather favors the growing crop or damages it. The past week over a large portion of the winter wheat region the plant has suffered considerably because of a lack of moisture and as a result of this condition the downward trend of prices noted a week ago, has been checked and advances made, the average price for the week being above that for the previous period. On Tuesday a slight reaction took place when the weather report promised rain for the more important wheat states. This with the heavy receipts caused a slight falling off. The bulls, however, were encouraged by the improved demand for cash wheat from millers who, a week ago, were slow for the first time since last fall in taking cash grain. The visible supply shows an increase of nearly a million bushels. One year ago the price for No. 2 red wheat was \$1.20 per bushel. Quotations for the week are as follows.

No. 2 No. 1

Red. White. May. July.
Thursday 1.19¼ 1.19¼ 1.20¼ 1.08¾
Friday 1.19¼ 1.19¼ 1.20¼ 1.08¾
Friday 1.19¼ 1.19½ 1.20¼ 1.08%
Saturday 1.19½ 1.19½ 1.20½ 1.08%
Saturday 1.19½ 1.19½ 1.20½ 1.08%
Wednesday 1.19 1.19 1.20 1.08.3%
Corn.—Corn values have improved during the past week. The influence of the

Corn.—Corn values have improved during the past week. The influence of the wheat trade is partly responsible for the change. Weather conditions are swaying the traders, however, because in the southwest as soon as farmers can go upon the land for spring work the delivery of corn will be checked. Generally, during the past week receipts have been liberal at primary elevators. The local trade is firm and quiet. One year ago the price for No. 3 corn was 67½c per bushel. The visible supply shows a decrease of about half a million bushels. Quotations for the week are as follows:

| No. 3 | Yellow. |
|----------------------------|----------|
| Thursday 61 | 62 |
| Friday 61 | 62 |
| Saturday 62 | 63 |
| Monday 62½ | 63 1/2 |
| Tuesday 621/2 | 63 1/2 |
| Wednesday 62½ | 631/2 |
| Octe This grain is being e | xchanged |

Oats.—This grain is being exchanged on practically the same basis as prevailed a week ago. The grain is scarce and there is a good demand for it, which demand will likely be augmented when farmers begin their The receipts have not been large. The local trading is quiet. One year ago the pushel: Quotations for the week are as follows: Standard No 3

| | | | | | | | К | 5 L 6 | anuar | 740. 0. |
|----------|---|--|--|--|--|--|---|--------------|--------|-------------|
| Thursday | | | | | | | | | 47 1/2 | 47 |
| Friday | | | | | | | | | 471/2 | 47 |
| Saturday | | | | | | | | | 471/2 | 47 |
| Monday | | | | | | | | | 471/2 | 47 |
| Tuesday | | | | | | | | | 47 3/4 | 471/4 |
| Wednesda | - | | | | | | | | 48 | 471/2 |
| | | | | | | | | | | 1 |

Beans.—There is no trading in beans on the Detroit market. Transactions at smaller points in the state are reported and at prices higher than the local quotations. It appears that parties holding beans have a high opinion of their value and do not readily part with them. Cash beans were quoted on this market a year ago at \$2.40 per bushel. Following are the nominal quotations for the past week:

Cash. April.

| Thursday | .\$2.15 \$2.18 |
|-----------|--------------------|
| Friday | . 2.15 2.18 |
| Saturday | . 2.15 2.18 |
| Monday | . 2.15 2.18 |
| Tuesday | . 2.15 2.18 |
| Wednesday | . 2.15 2.18 |
| | |

| | rime Spot. | Mar. | Alsike. |
|--------------|------------|--------|---------|
| Thursday | \$7.60 | \$7.60 | \$7.25 |
| Friday | 7.40 | | 7.25 |
| Saturday | 7.10 | 7.10 | - 7.00 |
| Monday | 7.00 | 7.00 | 7.00 |
| Tuesday | | 7.00 | 7.00 |
| Wednesday | 6,90 | 6.90 | 6.90 |
| W 35 1 1 1 1 | 11 0 7 10. | man NT | 1 10 |

| | | _ | - | ١. | | - | | _ | | | | | _ | _ | | | - | ٠. | | _ | PT 4 - |
|---|--------|---|---|----|--|---|--|---|--|---|---|---|---|---|-----|---|----------|-----|-----|----|------------|
| | Barley | | | | | | | | | | | | | | | | | | | | 2,917,000 |
| | Rye | | | | | | | | | | | | | | | | | | 2,0 | | |
| | Oats | | | | | | | | | ٠ | ٠ | ٠ | ٠ | | 9 | | | | | | |
| , | | | | | | | | | | | | | | | | | | | 2,0 | | |
| | Wheat | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | T | ì | 11S | ; | ∇ | 7 (| eel | ۲. | Last week. |

Provisions.—Family pork, \$29@30; mess pork, \$26.50; medium clear, \$28@29; pure lard, 15%c; bacon, 18@19c; shoulders, 15c; smoked hams, 17@17%c; picnic hams,

13½c.
Hides.—No. 1 cured, 10c; No. 2 cured, 9c;
No. 1 green bulls, 8c; No. 1 green calf, 14c;
No. 2 green calf, 13c; No. 1 cured calf,
15c; No. 2 cured calf, 14c; No. 1 horsehides, \$3.50; No. 2 horsehides, \$2.50; sheepskins, as to wool, 50c@\$2.

Dairy and Poultry Products.

skins, as to wool, 50c@\$2.

Dairy and Poultry Products.

Butter.—The butter trade remains steady with last week. There is no material change in the amount of offerings and the demand continues about nominal with that for several weeks past. Eigin and other markets are steady and firm. It is not expected that prices will be materially lower until there is a larger production of milk. Quotations are: Extracreamery, 31c; first do., 30c; dairy, 21c; packing stock, 20c per lb.

Eggs.—The price of fresh eggs, cases included, one year ago was 18c and two years ago, 15½c at this date. The offerings now coming to the market are small compared with those of other seasons and accounts, in part, for the higher prices are also the outcome of a heavy demand because of the almost prohibitive prices charged for other food products. The quotation for fresh receipts, cases included, is 21c per dozen.

Poultry.—The poultry trade is not active and the stock in the hands of dealers is small. Prices for most kinds are higher. Quotations for the week are: Live.—Spring chickens, 16½c; hens, 16½c; geese, 14@15c; turkeys, 17@18c. Dressed.—Chickens, 17@18c; hens, 17@18c; ducks, 19@20c; geese, 15c; turkeys, 20@24c.

Cheese.—Michigan, late made, 15@15½c; Michigan, fall made, 16½@17c; York state, 18½c; limburger, Wisconsin, 18c. New York, 19c; bricks, 18¼a@19c; Swiss, domestic block, 20c; Swiss loaf, 22@23c, Calves.—Higher. Choice to fancy, 11@18c; ordinary, 10@10½c per lb.

Fruits and Vegetables.

Apples.—Market firm and active. Spy, \$3.50@4; Baldwin, \$3@3.50; common, \$2

Apples.—Market firm and active. Spy, \$3.50@4; Baldwin, \$3@3.50; common, \$2@3 per bbl.

@Cranberries.—Cape Cod berries selling

Cranberries.—Cape Cou service at \$2 per bu.

Onions.—Domestic, 70@75c per bu;

Spanish, \$1.65 per crate.

Cabbage.—\$1.75@2 per bbl.

Vegetables.—Beets, 60c per bu; brussels sprouts, 20c per qt; carrots, 50c per bu; cauliflower, \$1.75@2 per bu; celery, 35@40c per doz; eggplant, \$1.25@2.50 doz; green per doz; green peppers, 60c cauliflower, \$1.75@2 per bu; celery, 35@40c per doz; eggplant, \$1.25@2.50 doz; green onions, 12½c per doz; green peppers, 60c per bu; lettuce, hothouse, 12@13c per lb; mint, 25c per doz; parsley, 20c per doz; radishes, 25c per doz; spinach, 70@75c per bu; turnips, 60c per bu; watercress, 35c per doz; wax beans, \$5 per bu; pieplant, 50c per doz.

OTHER MARKETS.

Grand Rapids.

The potato market continues very slow, with prices about 2c lower than last week's quotations. Red kidney beans are a little firmer, farmers being offered \$2.70 this week. White beans are practically unchanged, machine screened bringing on a basis of \$1.90. No special change, except a 2c advance in wheat, is noted in grain prices, the mills paying farmers as follows: Wheat, \$1.14; corn, 62c; oats, 48c. Dressed hogs continue firm at 12½c. Poultry is firm and very scarce, prices for dressed stock ranging as follows: Turkeys, 18@20c; chickens, 16@17c; hens, 15@16c; ducks, 16@17c; broilers, 1¼@2 lbs. each, 30@32c. The glass farmers report a 2c advance in lettuce.

Boston.

Wool.—During the past week there was a firmer tone in the local wool market due chiefly to the strength shown at the London auction sale. Farmers here and in the west are holding out for high values to dealers looking for their new crop. Some Michigan quarter-blood fleeces were sold last week at 32c per lb. Quotations for leading domestic grades are as follows: Ohio and Pennsylvania fleeces—No. 1 washed, 40@41c; delaines, washed, 39@40c; XX, 37@38c, half blood combing, 36@37c; quarter blood combing, 35c; delaine, unwashed, 29@30c; fine unwashed, 27@28c. Michigan, Wisconsin and New York fleeces—Fine unwashed, 25@26c; delaine unwashed, 31@32c; half blood, unwashed, 35@36c.

Beans.—Unchanged. Choice hand-picked, \$2.20 per bu; fair to good, \$2.15; red kidneys, \$2.80@3.10.

Butter.—Market firm at 31c per lb., which is the quotation of a week ago. The sales for the week amounted to 432,200 lbs., compared with 432,900 for the previous week.

THE LIVE STOCK MARKETS.

Buffalo.

Buffalo.

March 14, 1910.

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

Receipts of sale stock here today as follows: Cattle, 125 loads; hogs, 7,200; sheep and lambs, 9,000; calves, 1,400.

The cattle market today was active on all grades and prices ranged from 15@25c per hundred higher than last Monday. The market closed strong and we look for the trade to improve right along. The best fresh cows and springers sold strong but the common grades were only steady.

The best fresh cows and springers sold strong but the common grades were only steady.

We quote: Best export steers, \$7.50@ 7.90; best 1,200 to 1,300-lb shipping steers, \$6.85@7.25; best 1,100 to 1,200-lb. do., \$6.50@67; medium 1,050 to 1,100-lb. butcher steers, \$6.65.07; fair to good do, \$4.75@5.25; trimmers, \$3.36.50; best fat heifers, \$6.25@6.50; fair to good do., \$4.75@5.25; trimmers, \$3.36.50; best fat heifers, \$6.25@6.50; fair to good do., \$5.00@6; common do., \$4.75@5.50; best feeding steers, 950 to 1,000 lbs., \$5.05.50; best feeding steers, 800 to 900 lbs., \$4.75@5.50; best feeding steers, 800 to 900 lbs., \$4.75@5.50; best feeding steers, 800 to 900 lbs., \$4.75@5.50; best feeding steers, \$000 to 900 lbs., \$4.75@5.50; best feeding steers, \$000 to \$00 lbs., \$4.75@5.50; best beding steers, \$000 do., \$4.75@5.50; best bulls, \$6.00.50; bologna bulls, \$5.00.50; best bulls, \$6.00.50; bologna bulls, \$5.00.50; best bulls, \$6.00.50; best developed do., \$45.00; best limber and bigs and light yorkers 30.00.00; best lambs selling at \$10.50. The lamb market opened active with most of the best lambs selling at \$10.50. The market closed firm and if receipts are not too heavy we look for steady prices the balance of the week.

We quote: Best lambs, \$10.40.010.50; fair to good, \$10.00.30; vertlers, \$8.50.08.75; ewes, \$7.75.08; cull to common, \$7.50.08.50; heavy, \$4.00.50.

Chicago,

Cattle. Hogs. Sheep
Received today22,000 34,000 12,000
Same day last year .27,547 63,503 21,214
Received last week .54,482 86,101 53,214
Same week last year.51,963 164,204 72,383
A new week starts off today, with cattle active at firm to 10c higher prices, the advance being in the choicer class which are scarcer than ever. A sale was made of eight fancy 888-lb. heifers at \$6.90. Hogs opened about 5c lower, but soon firmed up and sold as high as last Saturday, heavy packing and selected shipping lots averaging 255 to 400 lbs. going at \$10.70@11, mixed packing and butcher hogs averaging 195@255 lbs. at \$10.55@10.95, light packing and selected shipping hogs averaging 140 to 195 lbs. at \$10.55@10.95, pigs at \$9.75@10.50 and stags at \$10.65@11.25. Sheep and lambs were scarce and 10@25c higher, wooled lambs seling at \$8@10 and clipped flocks at \$7.50@9. Wooled sheep were in strong demand, wethers being salable at \$7.50@8.25, ewes at \$4@8, bucks at \$6@6.75 and yearlings at \$8@9. Shorn wethers brough \$7.50.
Cattle were again in moderate supply and in strong general demand last week.

beans have a high opinion of their value and seal season and the past week and season ago at \$2.40 per bushel. Following are ago at \$2.40 per bushel. Following are ago at \$2.40 per bushel. Following are the nominal quotations for the past week the nominal quotations for the past week ago. The past week ago. Woole and per bushel and aslike has fined as the price for prime spot seed as declined a full dollar per bushel and aslike has full follar per bushel and aslike has full dollar per bushel and the full dollar per bushel an

@35c in a single day, and the aggregate advance was the most striking ever recorded in a week. The recent showing of provision supplies was an extremely bullish factor, combined stocks in Chicago, Milwaukee, Kansas City, Omaha and St. Joseph on March 1 being only 170,293,332 lbs., compared with 157,742,940 lbs. a month earlier and 324,674,406 lbs. a year ago. The provision market sympathized with hogs, and prices had lively advances, amid the wildest excitement on the Board of Trade, the "shorts" rushing to cover their trades. This has been the most remarkable year ever known in the hog trade, the top price the first day of January having been \$8.50, while \$10 was the top price the following month, with top so far for March at \$11. Hogs have been averaging in weight 211 lbs., compared with 203 lbs a year ago, 211 lbs. two years ago, and 226 lbs. three years ago.

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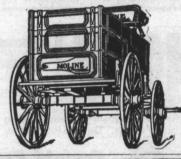
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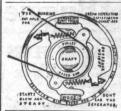
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THIS IS THE LAST EDITION.

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

DETROIT LIVE STOCK MARKETS.

Thursday's Market.
March 17, 1910.

Thursday's Market.

March 17, 1910.

Cattle.

Receipts, 1,421. Market 20@25c lower than last week on good grades. Common cattle of all kinds no higher.

We quote: Extra dry-fed steers and heifers, \$6.50@7; steers and heifers, 1,000 to 1,200, \$5.75@6.50; steers and heifers, \$800 to 1,000, \$5.25@5.75; steers and heifers that are fat, 500 to 700, \$4.75@5.25, choice fat cows, \$4.75@5.50; good fat cows, \$4.50@5; common cows, \$3.50@4; canners, \$2.75@3.25; choice heavy bulls, \$5@5.75; fair to good bolognas, bulls, \$4.75@5.25; stock bulls, \$4.50; milkers, large, young, medium age, \$40@45; common milkers, \$18@30.

Bishop, B, & H, sold Newton B, Co. 4 heifers av 640 at \$4.50, 12 do av 744 at \$5.50, 5 cows av 926 at \$3.25, 2 bulls av 665 at \$4.25, 5 butchers av 834 at \$4.75, 7 do av 786 at \$5.75, 2 cows av 1,010 at \$3.75, 10 steers av 762 at \$5.65, 3 do av 800 at \$5.60, 2 cows av 875 at \$4; to Sullivan P. Co. 3 cows av 800 at \$4.50, 1 bull weighing 1,440 at \$5, 4 steers av 650 at \$5, 8 do av 644 at \$5, 5 do av 1,020 at \$6.25, 4 heifers av 782 at \$4, 6 cows av 1,100 at \$5.10, 3 do av 977 at \$3, 7 steers av 1,080 at \$5.60, 2 do av 961 at \$6.35, 5 cows av 1,000 at \$5.50, 2 do av 961 at \$4.50, 1 bull weighing 1,630 at \$5.50, 1 do weighing 1,630 at \$5.55, 1 to Bresnahan 18 heifers av 535 at \$4.75; to Fronn 4 cows av 1,035 at \$3.90; to Mich. B. Co. 20 steers av 938 at \$5.35; to Sullivan P. Co. 14 do av 733 at \$5.40, 3 do av 977 at \$6.10, 3 cows av 760 at \$3; to Mewton P. Co. 2 do av 925 at \$3, 7 do av 960 at \$5.55, 1 do av 961 at \$4.50, 1 do weighing 1,050 at \$3.90; to Mich. B. Co. 20 steers av 1,060 at \$3.50; to Mewton P. Co. 2 do av 925 at \$3, 7 do av 960 at \$4.65; to Heammond, S. & Co. 6 steers av 940 at \$6.25; to Regan 7 heifers av 600 at \$4.65; to Heammond, S. & Co. 6 steers av 940 at \$6.00; 2 do av \$20 at \$5.15, 0 steers av 1,010 at \$5.60; do av \$20 at \$5.15, 1 do weighing 1,050 at \$5.50; do av \$20 at \$5.50, 1 do weighing 1,050 at \$5

1 bull weighing 1,280 at \$4.75, 3 cows av 1,032 at \$4.75, 1 steer weighing 1,130 at \$4.55, to Regan 7 heifers av 600 at \$4.55, to Hammond, S, & Co. 6 steers av 940 at \$4.50, to Sullivan P. Co. 1 bull weighing 1,750 at \$5.50, 1 do weighing 780 at \$3.50, to Sullivan P. Co. 1 bull weighing 1,750 at \$5.50, 1 do weighing 1,050 at \$5.50, 1 do weighing 780 at \$4.50, to Sullivan P. Co. 1 bull weighing 1,050 at \$5.50, 1 do av 760 at \$

y sold same 16 steers av 856 at 3 butchers av 820 at \$5, 4 cows av

Eddy sold same 16 steers av 856 at \$5.70, 3 butchers av 820 at \$5, 4 cows av 900 at \$3.

Tubbs & Son sold Lingeman 10 butchers av 852 at \$5.25.

Veal Calves.

Receipts, 844. Market steady at last week's prices on common. Best grades, 50c higher. Best, \$9.50@10; others, \$4 @8.75; milch cows and springers dull and \$5 lower.

Roe Com. Co. sold Nagle P. Co. 15

Mich. B. Co. 2 av 100 at \$6, 7 av 125 at \$8.75; to Sullivan P. Co. 3 av 120 at \$5.75. Waterman sold Street 10 av 140 at Lovewell sold Burnstine 9 av 140 at \$9.90.

\$9.90.

Downing sold same 13 av 130 at \$9.

Fenton sold same 4 av 130 at \$6, 7 av 125 at \$9, 7 av 120 at \$9.

Carmody sold Hammond, S. & Co. 10 av 144 at \$9.

Carmody sold Hammond, S. & Co. 10 av 144 at \$9.

Belheimer sold same 14 av 150 at \$9.75, 2 av 170 at \$7.

Bishop, B. & H. sold Nagle P. Co. 11 av 140 at \$9.50, 12 av 130 at \$9, 19 av 115 at \$8.50, 27 av 150 at \$10, 23 av 120 at \$8.50, to Mich. B. Co. 4 av 250 at \$5, 4 av 200 at \$5, 29 av 140 at \$9.25.

Bergen & W. sold Sullivan P. Co. 9 av 145 at \$9.25, 1 weighing 130 at \$6.

Duelle sold same 20 av 115 at \$8.50.

Sheep and Lambs.

Receipts, 3,399. Market 50c higher than last week on all grades.

Best lambs, \$9.75@10; fair to good lambs, \$9.50@9.75; light to common lambs, \$8.50@9; fair to good sheep, \$7@7.50; culls and common, \$4.50@5.50.

Bishop, B. & H. sold Breitenback Bros. 22 lambs av 63 at \$9. 1 sheep weighing 80 at \$6, 3 lambs av 50 at \$6, 23 do av 70 at \$6; to Nagle P. Co. 60 do av 53 at \$9.25, 195 do av 94 at \$10, 23 do av 67 at \$9, 172 do av 80 at \$9.75, 53 av 82 at \$9.75; to Breitenback Bros. 28 do av 70 at \$8.50; to Fitzpatrick Bros. 11 do av 70 at \$9.50, 10 sheep av 100 at \$6.50.

Sharp & W. sold Newton B. Co. 38 lambs av 70 at \$9. 18 sheep av 80 at \$6. Cheney & H. sold same 20 lambs av 65 at \$8.50.

Fenton sold same 7 lambs av 68 at \$9. Bordine sold Nagle P. Co. 218 lambs av 65 at \$8.50.

at \$8.50.

Fenton sold same 7 lambs av 68 at \$9.
Bordine sold Nagle P. Co. 218-lambs av
78 at \$9.75, 261 do av 82 at \$9.85.
Dancer & K. sold same 122 lambs av 77
at \$9.80, 11 sheep av 80 at \$4.50.

Waterman sold same 111 lambs av 85
at \$9.40.

Roe Com. Co. sold Nagle P. Co. 28
sheep av 110 at \$7, 16 lambs av 60 at
\$8.50.

Bergen & W. sold Sullivan P. Co. 22

\$8.50. Bergen & W. sold Sullivan P. Co. 22 lambs av 70 at \$9, 1 sheep weighing 100 at \$7. Lovewell sold Parker, W. & Co. 51 lambs av 65 at \$9.50.

Spicer & R. sold Nagle P. Co. 120 lambs av 75 at \$9.50; to Mich. B. Co. 131 do av 77 at \$9.85, 26 do av 58 at \$8, 25 sheep av 90 at \$7, 160 lambs av 70 at \$9.85, 30 sheep av 92 at \$4.75, 37 lambs av 53 at \$9.80, 10 do av 64 at \$8.50, 5 sheep av 92 at \$4.75; on 142 do av 75 at \$9.80, 10 do av 64 at \$8.50, 5 sheep av 90 at \$5.50; to Nagle P. Co. 85 lambs av 75 at \$9.65, 2 do av 125 at \$9.50, 6 sheep av 120 at \$6.25.

Veal Calves.

Same sold Marx 2 cow and steer av 1,025 at \$5.20.

Same sold Thompson 2 heifers av 725 at \$5.25.

Sharp & W. sold Bresnahan 2 cows av 785 at \$3.75.

Weeks sold same 3 canners av 877 at \$2.35.

Sharp & W. sold Newton B. Co. 2 cow and bull av 815 at \$4.80.

Breuer sold same 25 butchers av 740 at \$4.80.

Sharp & W. sold Kamman 3 steers av 856 at \$4.80.

Sharp & W. sold Kamman 3 steers av 856 at \$5.70.

Eddy sold same 16 steers av 856 at \$5.70. butchers av 820 at \$5, 4 cows av

Veal Calves.

The veal calf trade was full steady on anything good, but common thin grades were 50c lower and will continue to decline, as the butchers have no use for them. Keep them on the farm if possible. Best grades, \$8.75@9.50; others, \$4@8.

Stage & C. sold Hammond, S. & Co. 19 av 150 at \$9. 25.

Bishop, B. & H. sold Breitenback Bros. av 215 at \$6.50.

Smarp & W. sold Kamman 3 steers av 856 at \$5.70.

Eddy sold same 16 steers av 856 at \$5.70.

The veal calf trade was full steady on anything good, but common thin grades were 50c lower and will continue to decline, as the butchers have no use for them. Keep them on the farm if possible. Best grades, \$8.75@9.50; others, \$4@8.

Stage & C. sold Hammond, S. & Co. 19 av 150 at \$9.25.

Same sold Rattkowsky 3 av 150 at \$9.40, weighing 120 at \$8.

Sheep and Lambs.

The run of sheep and lambs was light and the market strong at Thursday's

and the market strong at Thursday's prices.

Best lambs, \$9.25@9.50; fair to good lambs, \$8.75@9.25; light to common lambs, \$7.50@8; fair to good sheep, \$6.50@7.50; culls and common, \$3@4.50.

Haley & M. sold Breitenback Bros. 13 lambs av 70 at \$9, 1 sheep weighing 150 at \$5.

**S lower.

**Roe Com. Co. sold Nagle P. Co. 15
av 115 at \$7, 35 av 130 at \$9.50, 5 av 250

**In the hog department the trade was
at \$5; to Hammond, S. & Co. 4 av 140 at
\$10 av 140 at \$9, 6 av 145 at \$9.50.

**Sharp & W. sold Newton B. Co. 1

**Weighing 110 at \$9.

**Tubbs & Son sold same 2 av 135 at \$9,

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FOR SALE—The Dyckman House Livery at Paw Paw, Mich. 12 head horses, harness, buggies, everything complete. Owner an old man on crutches from an accident. Don't answer unless you mean business and have some money. For particulars address J, HENRY HINCKLEY, Paw Paw, Mich.

TROUBLES BOOKENE

AN ACRE OF AMATITE

MATITE is making good. A MATITE is making good. Which needs no painting whatever, satisfied customers. Read this without any care or attention.

"Gentlemen:

W. Va.

We are thoroughly satisfied in every way with the Roofing. It makes a good tight, waterproof covering. We found that it was pany from \(\frac{1}{2} \) to \(\frac{2}{3} \) less than easily applied, and presents a nice bright appearance. It was only after careful consideration regular painting. that we decided to use Amatite, and turned mill work that we carry in stock at all times.

Yours very truly, AMERICAN COLUMN & LUM.

BER COMPANY W. W. Stark, President."

Notice the size of the roofsroofing had been used.

Amatite, has a mineral surface it. We get many such letters. Year after year in all weather They all tell the same story of that, roof will give perfect service An ordinary ready roofing would have required painting at least four times during the next ten We have in use about an acre and a half of Amatite Roofing on years; and it costs something to our plant located in St. Albans, paint an acre and a half of roofing four times. Figuring over a period of 10 years, the Amatite

as it is very important that our roofs be tight, owing to the large quantities of expensive lumber as important for the man who This no-paint feature of Amauses ten rolls as for the man who uses ten thousand. The proportion of saving is the srme.

FREE SAMPLE

We are glad to send sample of Amatite on request so as to show an acre and a half. Imagine the the mineral surface and the double work and the cost of painting layers of pitch. A postal card that big area if an ordinary ready request to our nearest office will bring it to you by return mail.

BARRETT MANUFACTURING COMPANY

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I guarantee your perfect satisfaction in every respect. The trial will not cost you one cent. Are you thinking of putting in a Litter or Feed Carrier, Stanchions, or Cow Stalls? Are you building or remodeling your barn?

Write to me and I will show you how I can save you money and tell you all about JAMES Litter Carriers—Stanchions—Cow Stalls and other Barn Equipment.

They are the standard among dairymen and stock raisers. Approved by experts, and representatives of the United States Bureau of Animal Industry. Write for large colored folder fully describing and illustrating "James" New Improved Alinement Stanchions and Sanitary Cow Stalls. Also latest catalog and prices on "James" Feed and

Litter Carriers. A post card will do. Write today. KENT MFG. CO., W. D. JAMES, Mgr.

131 Cane Street

> CLOVER SEED Grown in Northern Michigan on new land free from obnoxious weeds. Clean and good quality. C. A. CAIN, Hillman, Mich.

Mention Mich. Farmer when writing to advertisers.

POULTRY AS A BUSINESS.

the question, can I make a "go" of poul- supposed benefit from introducing wild the business if it is in you.

The man who has only a theoretical of the wild turkeys. knowledge of it had best go slow. Get a few well-bred hens and try it first as a the disease are easily killed by drying. side line. If this pays, and it nearly al- Dry sandy soils, therefore, would seem ways does, then keep on growing in the preferable for turkey raising, and it is

The cause of so many failures in the from the house and kept from all fields poultry business is "getting in bad." A over which other fowls are likely to man gets the "bee," goes out and buys forage. an old flock of hens here and another there, which are usually for sale because deavoring to obtain a strain of turkeys they are poor layers. He thus gets a big flock of failures together and he usually quits with one trial.

ness, I mean of keeping poultry for eggs as all the rest is more or less incidental. if forty well-bred hens of a good laving uals as may show a marked natural imstrain will produce \$200 worth of eggs in munity, or by the introduction and infuyear at a total expense of \$50 or less, it is easy to figure the result in gain. In increasing the vitality and resistance of my opinion this would not be an extraordinary yield of eggs. But if you get a was found necessary to trapnest the lay-big flock of "has beens," and harvest a ing hens. Three trapnests, constructed big crop of cholera, bowel disease and along practically the same lines as those inbreeding, instead of a harvest of eggs, out the laying period with complete suc-

the details. Be thorough. Don't be like a regular yards there was little or no loss certain prominent judge in this state who from blackhead, but when they were once tried farming and he went out to brought up to the breeding pens the disweedy hill he said it was not worth hoeing, and when he came to a good one it continued epidemic throughout the windid not need it, so he went up the row ter. This showed that whereas the perswimmingly. However, he quit farming centage is probably not quite so great in and studied law.

If you will not tend to your hens when better quit before you begin.

One thing experience has taught me: there is a time for laying and a time for DON'T NEGLECT SPRING CLEANING. rest with any flock of hens. If you force them to lay out of season you will pay for it two to one in a decreased season's vield. I say, breed well, feed well house well, but leave egg stimulants alone. If you doubt this take two lots of hens and stimulate one and simply nourish the other. Then keep account of their egg yield in dollars and cents for a year and see for yourself.

Isabella Co. WM. J. COOPER.

MUST THE TURKEY FLOCK BE ISO-LATED?

Latest information touching the cause and spread of blackhead among turkeys affect their laying for a few days. would seem to make it clear that this disease threatens the future of turkey raising as at present conducted on most farms. It is now claimed that in some sections of the country considerably more than one-half of the total number of turhas led to a careful study of this somereached, it is now believed that blackhead is caused by the same germ or bacillus which is responsible for the trouble known as white diarrhoea in chicks. Assuming this to be true, the question is, do turkeys contract the disease from running with the chickens?

It is clear that if satisfactory evidence supporting this claim can be produced, no unnecessary articles. the remedy, so far as turkeys are concerned, lies in separating them from the form of bowel trouble known ened with 90 per cent alcohol, finishing on with a brush. the incubation in a machine, keeping the poults for a few weeks on a clean board

THE MICHIGAN FARMER.

be reduced from a maximum of 80 per cent to about 15 to 20 per cent. This indicates that the turkeys must be kept away from ordinary fowls as much as possible, and, in view of the tendency of partially wild turkeys to roam and remain at a considerable distance from the Of late I have frequently been asked farm buildings, it is possible that the There is but one answer-it is in blood is thus partially explained, and that it is not wholly due to greater immunity

It seems that the parasites which cause clear that turkeys should be reared away

The Rhode Island station has been enwhich shall be highly resistant or immune to the ravages of this disease. It is endeavoring to attain this end by a contin-Now, in speaking of the poultry busi, tied selection of birds which evince a greater degree of resistance, by the preserving and perpetuating of such individsion of wild blood, in this way possibly other ailments incidental to old age and used for other fowls, were used throughwhy-it is still easier to figure the result cess, the turkey hens taking to them with great readiness. So long as the You must start right and take care of young turkeys were kept away from the When he came to a poor, ease soon began its ravages and many of the young birds died of blackhead, which turkeys which are not exposed to the disease until they are several months old they are not laying, because it doesn't as when they are exposed immediately pay, nor tend to them when they are lay- or soon after hatching, nevertheless they ing because you don't need to, you had can not be said to become immune to the disease at any age.

As early as the weather will permit there should be a thorough cleaning up of poultry houses and yards. Even though they have been well cared for during the winter, a general overhauling will found advisable. Throughout the winter we may have cleaned out the droppings every day or two, changed the nesting material frequently and used insect powder freely. Nevertheless there is need of a more thorough cleaning . when spring opens, and it is advisable to begin early. I like to do the job in one day, for the hens are always more or less disturbed work in the houses and it is apt to

In cleaning up I begin with the nests. For convenience in moving them about they are made in sections of three each. To clean them they are removed to the yard some distance from the houses and the straw is lighted after a little kerosene keys that are hatched succumb to this has been poured over it. By this means disease. This rather alarming condition any lice that may be hidden in the cracks will be driven out. Seldom are there any what mysterious ailment and, while no in my nests, but when I find them oil is very definite conclusions have been poured along the entire length of the nest boxes where the boards join. A few minutes burning rids the boxes of all vermin. After they have been burned out a heavy coat of whitewash should be applied inside and out. Then put fresh clean straw in them, first placing a layer of air slaked lime or wood ashes in the bottom.

In the poultry houses there should be Besides the roosts and nests nothing but the drinking fountain, dust, grit and feed boxes have general farm poultry flock and growing place there, and through the summer them upon soil which has not been con- these latter utensils are best kept outside. taminated by chicks which have suffered But sometimes the poultry house is made from that form of bowel trouble known as white diarrhoea. Some evidence bearming on this point is furnished by the Rhode Island station where careful experiments demonstrated that the disease is not transmitted through the egg. From these investigations it was also strongly evident that while ordinary fowls (hens, guineas, pheasants, etc.), rarely die of the disease they carry and distribute it. They have shown that by removing the turkey eggs three or four days before hatching, wiping them with a cloth moista store-room for odds and ends that achatching, wiping them with a cloth moist- the cracks and crevices better than if put

> Don't neglect the under side of the perches. There is where the hundreds of

Thousands of Men and Women Have Kidney Trouble and Never Suspect It.

Nature warns you when the track of health is not clear. Kidney and bladder trouble compel you to pass water often thru the day and up many times during the night.

Unhealthy kidneys cause lumbago, rheumatism, catarrh of the bladder, pain or dull ache in the back, joints or muscles, at times have headache or indigestion, as time passes you may have a sallow complexion, puffy or dark circles under the eyes, sometimes feel as tho you had heart trouble, may have plenty of ambition but no strength, get weak and lose flesh.

If such conditions are permitted to continue, serious results are sure to follow; Bright's disease, the very worst form of kidney trouble, may steal upon you.

Prevalency of Kidney Disease.

Most people do not realize the alarming increase and remarkable prevalency of kidney dis-While kidney disorders are the most common diseases that prevail, they are almost the last recognized by patient and physicians, who usually content themselves with doctoring the effects, while the original disease constantly undermines the system.

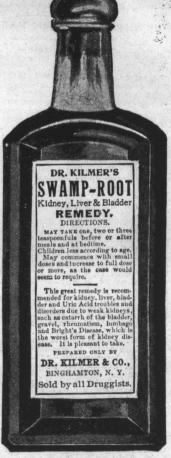
A Trial Will Convince Anyone. If you feel that your kidneys are the cause of your sickness or run down condition, begin taking Dr. Kilmer's Swamp-Root, the great kidney, liver and bladder remedy, because as soon as your kidneys begin to get better, they will help the other organs to health. In taking Swamp-Root, you afford natural help

to Nature, for Swamp-Root is a gentle, healing vegetable compound—a physician's prescription for a specific disease. You can not get rid of your aches and pains if your kidneys are out of order.

can not feel right when your kidneys are

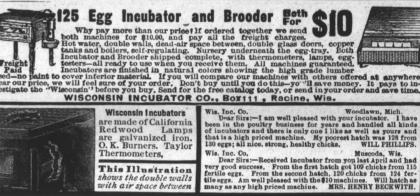
Swamp-Root is Pleasant to Take. If you are already convinced that Swamp-Root is what you need, you can purchase the regular fifty-cent and one-dollar size bottles at all drug stores. Don't make any mistake, but remember the name, Dr. Kilmer's

Swamp-Root, and the address, Binghamton, N. Y., which you will find on every bottle.



Swamp-Root is always kept up to its high standard of purity and excellence. A sworn certificate of purity with every bottle.

SAMPLE BOTTLE FREE-To prove the wonderful merits of Swamp-Root you may have a sample bottle and a book of valuable information, both sent absolutely free by mail. The book contains many of the thousands of letters received from men and women who found Swamp-Root to be just the remedy they needed. The value and success of Swamp-Root is so well known that our readers are advised to send for a sample bottle. Address Dr. Kilmer & Co., Binghamton, N. Y., be sure to say you read this generous offer in the Detroit Michigan Farmer. The genuineness of this offer is guaranteed.





This Illus'tration shows the double walls with air space between

Write To Us And Get Acquainted

With What We Have to Offer A letter or postal—either one will do—then we'll send you our literature and valuable information on raising poultry to make money.

Racine Incubators turn healthy eggs into healthy chicks every time—and give the highest percentage of hatches. They are sure—safe—and simple—made to last a lifetime—sold at prices lower than anybody else will quote you for the same quality—and they make money for you right from the jump and give everlasting satisfaction. Write and get our proposition—our literature is free. Free Trial plan—best ever offered. Don't delay—Write for full information today.

RACINE HATCHER COMPANY. Box 54, Racine, Wis.

"BRECO" Freight

The Breese Bros. Co. Roofing Dept. 14. Cincinnati, 0.

floor, and placing them in a location remote from ordinary fowls, the losses from
blackhead prior to reaching maturity may

little red mites collect during the day.

Unlike lice, they remain on the hens only
blackhead prior to reaching maturity may

at night, but from dark until dawn they

M. PETZOLD, 1033 S. Claremont Ave., Chicago, Il



\$ 55 Buys Best 140-Egg Incubator

We ship quick from St. Paul Buffalo, Rannas City or Recins price are better. Write for book today or send price and save waiting. Satisfaction guaranteed. BELLE CITY INCUBATOR CO., Box 14 Racine, Wis.

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CYPHERS INCUBATORS lating; self-ventilating. Write for 160-pag Catalog. Amress Nearest City.

The Fountain Head of Life is The Stomach

A man who has a weak and impaired stomach and who does not properly digest his food will soon find that his blood has become weak and impoverished, and that his whole body is improperly and insufficiently nourished.



DR. PIERCE'S GOLDEN MEDICAL DISCOVERY makes the stomach strong, promotes the flow of digestive juices, restores the lost appetite, makes assimilation perfect, invigorates the liver and purifies and enriches the blood. It is the great blood-maker, flesh-builder and restorative nerve tonic. It makes men strong in body, active in mind, and cool in judgment.

This "Discovery" is a pure, glyceric extract of American medical roots, absolutely free from alcohol and all injurious, habit-forming drugs. All its ingredients are printed on its wrappers. It has no relationship with secret nostrums. Its every ingredient is endorsed by the leaders in all the schools of medicine. Don't accept a secret nostrum as a substitute for this time-proven remedy of KNOWN COMPOSITION. Ask YOUR, NEIGHBORS. They must know of many cures made by it during past 40 years, right in your own neighborhood. World's Dispensary Medical Association, Dr. R. V. Pierce, Pres., Buffalo, N. Y.

BEEKEEPING its pleasure and profits, is the somely illustrated magazine, GLEANINGS IN BEE CULTURE. We send it for six months on trial for twenty-five cents, and also send free a 64-page book on bees and our bee supply catalog to all who name this paper. THE A. I. ROOT Co., Box 54, Medina, O.

Don't Wait to Order eggs until you want them, Order early and avoid the April and May rush. A card will bring our mating list. I am booking orders now to be delivered later H. H. KING, Willis, Mich.

EGGS-EGGS from my prize-winning Single comb Brown Leghorns at easy prices. Cockerels, hens and cock birds for sale. CHAS. W. BUFF, St. Clair, Michigan, Dept. M. F

EGGS-Pure bred S. C. Brown Leghorns, 15, 75c; 50, 42,50; 100 \$4. Let me book your order now, MBS. ELNA OLMSTEAD, R. No.4, Nashville, Mich.

CROSS BRED-Thoroughbred Leghorn and Rhode Island Red cross produces finest layers and Table Fowl in the world. 50c for 13, 24, for 160, Edella Farms, Box 47, Grosse Pointe, Michigan.

My S. C. Brown Leghorns lay eggs, orders booked now. \$2.00 per 15. WM. J. COOPER, Mt. Pleasant, Mich.

LARGE, VIGOROUS Rhode Island Reds, White Wyandottes Barred Rocks, Single & Rose Cobm Brown Leghorns Buff Leghorns, White & Pearl Gulneas. Geese eggs, Toulouse, Embden, African, White and Brown Chinas. E. J. HASKINS, Pittsford, Mich.

LIGHT BRAHMA, White Wyandotte and Barred Plymouth Rock Cockerels for sale, good tock. E. D. BISHOP, Route 38, Lake Odessa, Mich.

MAMMOTH BRONZE TURKEYS and prize-winning BROWN LEGHORN COCKERELS, MRS. THOS. WYCKOFF, Orchard Lake, Mich.

R. I. Reds & White P. Rocks—Cockerels and hens for sale bred from prize-winning stock. Satisfaction guaranteed. Howard Colby, Dentons, Mich.

WHITE LEGHORN COCKERELS R. or S. C.; B. C. White Leghorn eggs \$1.50 to \$2.50 setting. A. R. GRAHAM, Flint, Mich.

Buff Rock Cockerels Good size, color healthy, \$1.50 up. WILLIS S. MEADE Holly Mich, R.No. 3.

WHITE WYANDOTTES—The unsurpassed business hen. Eggs \$1.50 per 15 or \$2.50 per 30. A. FRANKLIN SMITH, Ann Arbor, Mich

S. Write for particulars. LEWIS T. OPPEN-LANDER, successor to Fred Mott, Lansing, Mich.

My "REDS" are standard bred. Breeding pens are selected winter layers, both combs. Eggs \$1 and \$1.50 per 15, R. C. Ok is \$2 and \$3. Best African Geese in Mich., eggs 75c each. Guarantee results on early orders. W. T. FRENCH, Ludington, Mich,

S. C. BLACK MINORCAS—Some choice cock-erels and a few yearling heas to spare. Eggs \$2 per setting of 15. R. W. MILLS, Saline, Mich.

R. C. R. I. BEDS—Am now booking orders for eggs for spring delivery. Choice pens \$3 per 15; Utility pens \$2 per 15; \$5 per 100. B. A. Fraser, Fountain Farm, Rosebush, Mich.

Y. B. BRAND-S. C. W. Leghorns. Bred to lay. \$1. per 15; \$5 per 100. C. W. YEITER, Alto, Michigan.

TRAINED FOX HOUNDS and Hound Pups for hunting fox and coons. Also Collies. Inclose 2-cent stamp. W. E. LECKY, Holmesville, Ohio.

are busy sucking the very life from the fowls. Burn off the roosts if necessary Oiling them is a good preventive but I have discarded it and now depend upon whitewash, applying a thin coating twice a month. For this purpose it is not necessary to make whitewash of freshly slaked lime. I simply mix some old airslaked lime with cold water, making a

thin paste and applying it with a paint

With the coming of warm weather it is necessary to give closer attention to the feed troughs. Soft feed left in them ferments rapidly and is very apt to cause trouble if eaten after it has soured. Half an hour after feeding time any feed remaining in the troughs should be removed. It is also well to scald and wash the troughs every week. Impure drinking water also is often a source of disease in the flock. Clean the vessels frequently, fill with fresh water daily, and have them covered or protected in some way to prevent the hens from fouling the water. N. S. GREEN. Ohio.

IN ANSWER TO INQUIRIES.

Cold in Head.

E. W. I., Van Buren Co.: The trouble which you describe no doubt comes from colds which are probably traceable to drafts or dampness in the fowls' quarters. If allowed to go on unchecked for a considerable time colds are likely to lead to catarrh or bronchitis or roup. If many members of the flock have contracted colds it would indicate that there is something wrong with the conditions under they are kept. Thèir quarters should be dry, sunny and well ventilated. Their rations should comprise a variety of good wholesome foods given in such a way as to promote exercise and general activity. As a remedy for colds one poultryman has good results from the following: Mix equal parts of black pepper, ginger, flour and mustard and add enough lard so that the mixture can readily be rolled into pills of a convenient size for fowls to take. At the first indication of cold in any fowl give two or three of these pills at night. This is often sufficient to break up a cold but sometimes the use of the remedy must be continued for several days. It is important that the bowels be kept in good condition.

EARLY SPRING DUTIES OF THE BEE-KEEPER.

Let us bear in mind that nature in beekeeping, as in other branches of farming, does the lion's share of the work. We simply guide her efforts in our channels and aid the bees mechanically. The first thing I do with my bees in early spring is assist them to clean up their house, no matter whether they were wintered indoors or on the summer stands. During the winter months the older bees die off, and, if they do not become wedged between the combs in their descent, they fall to the bottom-board, which, by the time spring comes around, generally is thickly covered with dead bees. Bees also sometimes die in patches on the comb, caused by their leaving the main cluster on some mild day and the weather turning very cold, so that they become chilled through before they can get back to the cluster. These and all other dead bees should be removed and a clean bottom-board put in place. All this is a great help to the colony, and it seems to appreciate this help, for one so treated will build up in numbers very much faster than one that is neglected.

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POULTRY AS A BUSINESS.

Of late I have frequently been asked the question, can I make a "go" of poul-There is but one answer-it is in the business if it is in you.

The man who has only a theoretical knowledge of it had best go slow. Get a side line. If this pays, and it nearly always does, then keep on growing in the

The cause of so many failures in the from to poultry business is "getting in bad." A over wann gets the "bee," goes out and buys forage. an old flock of hens here and another there, which are usually for sale because they are poor layers. He thus gets a big flock of failures together and he usually quits with one trial.

Now, in speaking of the poultry business, I mean of keeping poultry for eggs as all the rest is more or less incidental. if forty well-bred hens of a good laying strain will produce \$200 worth of eggs in a year at a total expense of \$50 or less, it is easy to figure the result in gain. In my opinion this would not be an extraordinary yield of eggs. But if you get a big flock of "has beens," and harvest a big crop of cholera, bowel disease and inbreeding, instead of a harvest of eggs. why-it is still easier to figure the result in loss.

You must start right and take care of the details. Be thorough. Don't be like a certain prominent judge in this state who once tried farming and he went out to When he came to a poor, hoe corn. weedy hill he said it was not worth hoeing, and when he came to a good one it continued epidemic throughout the windid not need it, so he went up the row swimmingly. However, he quit farming and studied law.

If you will not tend to your hens when they are not laying, because it doesn't pay, nor tend to them when they are laying because you don't need to, you had better quit before you begin.

One thing experience has taught me: there is a time for laying and a time for rest with any flock of hens. If you force them to lay out of season you will pay for it two to one in a decreased season's vield. I say, breed well, feed well, house well, but leave egg stimulants alone. If you doubt this take two lots of hens and stimulate one and simply nourish the other. Then keep account of their egg yield in dollars and cents for a year and see for yourself.

Isabella Co. WM. J. COOPER.

MUST THE TURKEY FLOCK BE ISO-LATED?

Latest information touching the cause and spread of blackhead among turkeys would seem to make it clear that this disease threatens the future of turkey raising as at present conducted on most It is now claimed that in some sections of the country considerably more than one-half of the total number of turkeys that are hatched succumb to this disease. This rather alarming condition has led to a careful study of this somewhat mysterious ailment and, while no definite conclusions have been reached, it is now believed that blackhead is caused by the same germ or bacillus which is responsible for the trouble known as white diarrhoea in chicks. Assuming this to be true, the question is, do turkeys contract the disease from running with the chickens?

It is clear that if satisfactory evidence supporting this claim can be produced, the remedy, so far as turkeys are concerned, lies in separating them from the general farm poultry flock and growing them upon soil which has not been conthat form of howel trouble known as white diarrhoea. Some evidence bearing on this point is furnished by the mediate use. periments demonstrated that the disease guineas, pheasants, etc.), rarely die of turkey eggs three or four days before ened with 90 per cent alcohol, finishing on with a brush. the incubation in a machine, keeping the poults for a few weeks on a clean board perches. There is where the hundreds of floor, and placing them in a location remote from ordinary fowls, the losses from blackhead prior to reaching maturity may blackhead prior to reaching maturity may at night, but from dark until dawn they M. PETZOLD, 1033 S. Claremont Ave., Chicago, Ill.

THE MICHIGAN FARMER.

be reduced from a maximum of 80 per cent to about 15 to 20 per cent. This indicates that the turkeys must be kept away from ordinary fowls as much as possible, and, in view of the tendency of partially wild turkeys to roam and remain at a considerable distance from the farm buildings, it is possible that the supposed benefit from introducing wild blood is thus partially explained, and that it is not wholly due to greater immunity of the wild turkeys.

It seems that the parasites which cause few well-bred hens and try it first as a the disease are easily killed by drying. Dry sandy soils, therefore, would seem preferable for turkey raising, and it is clear that turkeys should be reared awa, from the house and kept from all fields over which other fowls are likely to

The Rhode Island station has been endeavoring to obtain a strain of turkeys which shall be highly resistant or immune to the ravages of this disease. It is endeavoring to attain this end by a continded selection of birds which evince a greater degree of resistance, by the preserving and perpetuating of such individuals as may show a marked natural immunity, or by the introduction and infusion of wild blood, in this way possibly increasing the vitality and resistance of the race. In order to identify the eggs it was found necessary to trapnest the laying hens. Three trapnests, constructed along practically the same lines as those other ailments incidental to old age and used for other fowls, were used throughout the laying period with complete success, the turkey hens taking to them with great readiness. So long as the young turkeys were kept away from the regular vards there was little or no loss from blackhead, but when they were brought up to the breeding pens the disease soon began its ravages and many of the young birds died of blackhead, which ter. This showed that whereas the percentage is probably not quite so great in turkeys which are not exposed to the disease until they are several months old as when they are exposed immediately or soon after hatching, nevertheless they can not be said to become immune to the disease at any age.

DON'T NEGLECT SPRING CLEANING.

As early as the weather will permit there should be a thorough cleaning up of poultry houses and yards. Even though they have been well cared for during the a general overhauling will found advisable. Throughout the winter we may have cleaned out the droppings every day or two, changed the nesting material frequently and used insect powder freely. Nevertheless there is need of a more thorough cleaning when spring opens, and it is advisable to begin early. like to do the job in one day, for the hens are always more or less disturbed by work in the houses and it is apt to affect their laying for a few days.

In cleaning up I begin with the nests. For convenience in moving them about they are made in sections of three each. To clean them they are removed to the yard some distance from the houses and the straw is lighted after a little kerosene has been poured over it. By this means any lice that may be hidden in the cracks will be driven out. Seldom are there any in my nests, but when I find them oil is poured along the entire length of the nest boxes where the boards join. A few minutes burning rids the boxes of all vermin. After they have been burned out a heavy coat of whitewash should be applied inside and out. Then put fresh clean straw in them, first placing a layer of air slaked lime or wood ashes in the bottom.

In the poultry houses there should be no unnecessary articles. Besides roosts and nests nothing but the drinking fountain, dust, grit and feed boxes have place there, and through the summer these latter utensils are best kept outside. taminated by chicks which have suffered But sometimes the poultry house is made a store-room for odds and ends that accumulate and for which there is no im-Tossed in a heap in the Rhode Island station where careful ex- poultry house they are soon covered with filth and become infested with vermin. is not transmitted through the egg. From If there are any of these disease-breeding these investigations it was also strongly heaps in your poultry houses clean them evident that while ordinary fowls (hens, out if you want healthy chickens. Sweep every vestige of trash from the houses, the disease they carry and distribute it. then give the whole interior a coat of They have shown that by removing the carbolized whitewash. Applied by means of a spray pump it can be made to reach hatching, wiping them with a cloth moist- the cracks and crevices better than if put

Don't neglect the under side of the poults for a few weeks on a clean board perches. There is where the hundreds of

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Nature warns you when the track of health is not clear. Kidney and bladder trouble compel you to pass water often thru the day and up many times during the night.

Unhealthy kidneys cause lumbago, rheumatism, catarrh of the bladder, pain or dull ache in the back, joints or muscles, at times have headache or indigestion, as time passes you may have a sallow complexion, puffy or dark circles under the eyes, sometimes feel as tho you had heart trouble, may have plenty of ambition but no strength, get weak and lose flesh.

If such conditions are permitted to continue, serious results are sure to follow; Bright's disease, the very worst form of kidney trouble, may steal upon you.

Prevalency of Kidney Disease.

Most people do not realize the alarming increase and remarkable prevalency of kidney dis-While kidney disorders are the most common diseases that prevail, they are almost the last recognized by patient and physicians, who usually content themselves with doctoring the effects, while the original disease constantly undermines the system.

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are busy sucking the very life from the fowls. Burn off the roosts if necessary. Oiling them is a good preventive but I have discarded it and now depend upon whitewash, applying a thin coating twice a month. For this purpose it is not necessary to make whitewash of freshly slaked lime. I simply mix some old airslaked lime with cold water, making a thin paste and applying it with a paint brush.

With the coming of warm weather it is necessary to give closer attention to the feed troughs. Soft feed left in them ferments rapidly and is very apt to cause trouble if eaten after it has soured. Half an hour after feeding time any feed remaining in the troughs should be removed. It is also well to scald and wash the troughs every week. Impure drinking water also is often a source of disease in the flock. Clean the vessels frequently, fill with fresh water daily, and have them covered or protected in some way to prevent the hens from fouling the water.

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E. W. I., Van Buren Co.: The trouble which you describe no doubt comes from colds which are probably traceable to drafts or dampness in the fowls' quarters. If allowed to go on unchecked for a considerable time colds are likely to lead to catarrh or bronchitis or roup. If many members of the flock have contracted colds it would indicate that there is something wrong with the conditions under which they are kept. Their quarters should be dry, sunny and well ventilated. Their rations should comprise a variety of good wholesome foods given in such a way as to promote exercise and general activity. As a remedy for colds one poultryman has good results from the following: Mix equal parts of black pepper, ginger, flour and mustard and add enough lard so that the mixture can readily be rolled into pills of a convenient size for fowls to take. At the first indication of cold in any fowl give two or three of these pills at night. This is often sufficient to break up a cold but sometimes the use of the remedy must be continued for several days. It is important that the bowels be kept in good condition.

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As to demand for the product and the profit in its culture there is no question. The manufacturers of table condiments create an almost endles demand for it or, at least they do when it is to be had. A home market is all around us as nearly every family has use for it during the



Water Sprouts Make a New Top.

canning and pickling season, and there are many men making handsome profits out of bottling it for the grocery trade. To sum up, the profits of its culture are sufficiently large that the growers almost to a man are extremely reticent as to the detail of the work or the profits in the crop. Then, too, there is naturally much prejudice against growing it, as it is nearly always thought of as a noxious weed that cannot be gotten rid of. Now, this last objection is true when judged from the standard of the wild sort that infests the fence corners and is so tenacious of life that it is next to impossible to get rid of it when once it has gained a foothold. But when considered from the standpoint of the commercial sorts that are bred up and grown for profit then the objection is stripped of its ter-And this last thought carries with it a precaution that in purchasing sets from which to grow stock, deal only with growers of known reputation and who are not afraid to guarantee their stock as to purity. With this safeguard and proper care while the crop is growing, there is little danger of it spreading and becoming noxious.

As to soil and its preparation, any ground that will grow a good crop of corn or potatoes will grow a fair, or even good, crop of horseradish. But mediocrity in crop growing is not what we are hunting; but it is the bumper crops we desire, so it pays to select deep, rich soil and by heavy feeding increase its fertility. Heavy clay subsoil is not good unless broken up with the subsoil plow. Rich sand or loam deeply worked so that the roots shall have ample opportunity to lengthen and enlarge, is the ideal soil. The best preparation is to apply a large quantity of manure at once, and if possible, plow it under very shallow; just enough to cover it, then as early in spring as the ground will work freely plow deeply and top dress with well cured manure. In spring, just as soon as soil conditions will admit, work the ground both deep and well and make sure of its fertility.

In setting, mark off the rows three feet apart, and set preferably, on slight ridges. When properly put up by the seedsmen the sets or small roots are put up in bundles with the top end cut slanting, so wrong end up. Plant eighteen inches in the row, and this is easiest done with a spade, set it quite slanting, then raise the handle sufficiently to push the set under the blade and deep enough that when the set is covered it shall be an inch or two deep. Withdraw the spade and tamp the ground slightly with the foot. In

move with a knife all the small side roots. After removing these cover again This work will require to be done twice; but it gives a clean root and throws all the growth to the main root, which in good soil will reach from one to two or more inches in diameter. The other culture is the same as for corn until the tops cover the ground when the crop may be laid by.

Sets of the ordinary, or American variety, can be obtained at reasonable prices; but it pays to get the best, and the Bohemian or Maliner-Kren is easily the best under cultivation. This has been thoroughly tested and is pronounced by the best authorities as the leading sort.

The roots can be fitted in fall same as potatoes or other root crops, and after the first year one can save their own These suggestions are made thus sets. early that those desiring can obtain the stock and make preparations in time, for the crop pays well if the proper precautions are taken, and an early start is made in spring so as to get all the root growth possible.

Wayne Co. J. E. Morse.

CARE OF THE OLD APPLE TREE.

Two cuts are shown on this page. They show work done on old apple trees. One illustrates a large cut where a decayed stub was removed and the other illustrates how new growth may be started in the top of an aged tree.

Where cuts have been improperly made it often happens that the heart of the tree at the cut decays because the cambium tissue or growing part of the tree has no chance to grow over the surface. If it grows over before any rot starts the surface becomes thoroughly protected by the new wood and bark. But where the cut surface is not in the course of the sap from the roots to the top of the tree, then it is impossible for the tree to cover the surface since it has no power to get the food there to build new wood and bark, and as a result the surface is exposed to decay, as was the situation with the limb removed from the tree shown in the cut. Now, the owner has removed the stub and finds that there is but a shell of wood. What can he do?

About the best course to follow in caring for a hole of this kind is to dig out all of the decomposed wood that can be conveniently removed and fill the space with cement. Whether this would be policy in all cases would depend upon the If it is of a good variety, had exhibited a tendency to bear well during the preceding years, if one did not have many and the tree occupied ground that could not be used for other purposes then there would be more inducement to go to the extra trouble demanded than if other conditions existed. Nevertheless. amount of labor required would not be



The Result of Former Neglect. Can it be Remedied?

large and one would, generally speaking, have a tree that would last enough longer there shall be no danger of planting to well repay for the care. It should be stated here that such conditions as this should be avoided by cutting off limbs close to the supporting branch and parallel thereto, covering the cut surface with lead paint and keeping it so until the bark has grown over.

Mistakes in pruning often "follow the tree to the grave." They cannot be fully June, and again four or five weeks later, corrected by judicious handling thereafthe roots should be uncovered very care- ter. These mistakes during the life hisfully so as not to disturb the top root tory of Michigan orchards have made growth, and rub off with the hand or re- many of them difficult to bring back into

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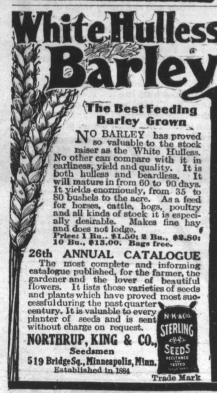
The farmer of today buys a much larger proportion of the food that goes on the table than he did ten years ago. It's a good thing that this is so because he has a great variety to select from. He should, however, use great care in selecting for the best results in health and strength.

The widespread tendency in the city to increase the amount of Quaker Oats eaten is due very largely to the recent demonstrations by scientific men that the Quaker Oats fed man is the man with greatest physical endurance and greatest mental vigor.

Farmers should give this subject careful thought and should increase the quantity of Quaker Oats eaten by themselves, their children and the farm hands.

The regular size 10c package is not as convenient for the farmer as the large size family package at 25c. 57







fruition again. To see a tree with long, bare limbs extending laterally and upward for ten or fifteen feet, having but a tutt of bearing surface at the extreme ends like a palm tree, is a barrier that discourages many courageous men who otherwise would take hold of the trees and put them in condition. But even such trees are not hopeless. The illustration shows how water sprouts may be taken advantage of. The two sprouts started near The owner cut off the main limb just above them to force all of the growth into the new wood. As was suggested some week ago in the columns of The Farmer, these limbs could have been given a more reclining habit by tying weights to them. A stick of wood, or a stone of sufficient weight to pull them down in the proper position is all that is necessary. Another precaution in working over the top of the tree is to get the dense bearing surface at the extreme ends of the long branches broken so that the new wood at the center of the tree can have a chance to use a sunlight—a necessary condition for growth.

ASPARAGUS CULTURE.

During recent years the culture of asparagus has received more attention than formerly and where it was once a luxury it is more commonly used, yet the supply does not nearly equal the demand, although there are many extensive beds, there is still room for more.

There is not a vegetable that pays better for the amount of labor and expense on the same amount of ground, and once a bed is started it is there to remain for several years without any expense, only for labor. For outdoor vegetables it is one of the earliest.

There are two methods by which plants can be secured from seed and from roots

If roots can be obtained from a reliable firm, one who grows them, this is the quickest way to start a bed, as it requires three years to get a crop from seed, and the earlier returns will more than pay for the roots. Roots should not be over two years old to make a thrifty bed.

The writer has had good success taking up the young plants that grew from seed in an old bed. They should be taken up after a rain, being careful to take up enough dirt so as not to disturb the young plants. If a clump of plants, leave them together, dig a hole large enough to set the plant in as if it had grown there, place in rows in the garden where it can be cultivated, but do not put into a permanent bed until two years old.

In selecting a bed a soil that is a little sandy, but rich, is preferable for early

The ground should be free from weeds and rubbish, plowed deep and well pulverized. The rows should be four feet apart and six inches deep, from one to two feet between the plants.

Asparagus should not be cut before the second year and the season's cutting should not be prolonged after the middle of June, as it injures the life and vitality of the roots.

In the fall when the tops have fully matured they should be cut and burned, then a dressing of manure applied. In the spring when the ground is dry enough, plow and pulverize the soil, being careful not to cut the crowns. Salt, if a fairly liberal quantity is used, will prevent the weeds from growing, although there is a question as to whether it is a benefit to the asparagus, if it is not injurious.

Minnesota. E. E. GRIMES.

SOD IN ORCHARD.

I have just purchased a nine-acre or-chard which has a heavy June grass sod; would like to seed same to some kind of grass. What kind would be best? Would alfalfa grow all right in an orchard? Charlevoix Co. C. A. M.

If the subscriber wishes a grass sod his orchard he had better leave the June grass alone. For should he sow to any other kind the probabilities are that in a short time the June grass will be re-established since it is our most persistent and hardy variety. Alfalfa may grow all right in the orchard, but as it usually is with some difficulty that this crop can be started under the most favorable circumstances it would not seem wise to try it in the orchard. Our correspondent does not inform us whether he desires to make this orchard into a pasture, hay lot or fruit plantation. If the latter we would advise him to break the sod and keep it broken for a few years, at least, or to mulch with straw or manure beneath the trees to destroy the June grass and give the trees a chance at the plant food and moisture that the grass is now using.



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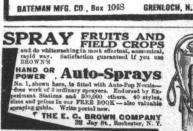
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A. J. PLATT, Mfgr STERLING, ILL

MAKING LIME-SULPHUR SPRAY.

Will you kindly give information through these columns, on the best method of preparing the lime-sulphur spray? I have a two-barrel kettle to cook it in. I have read considerable about it, but the writers do not agree about the subject. Any reliable information upon the way of preparing, and the amount to use, will be gratefully received by the farmers in this locality.

Jackson Co. F. C. S.

Our Jackson county subscriber perhaps has reason for becoming confused on the method of making lime-sulphur spray. During the past year or two much has been discovered about the manufacture of this material and as a consequence less lime is now being used, it not only mak ing the preparation cheaper, but also bet ter in that the spray can be kept indefiby simply sealing or closing the vessel in which it is kept so it will not evaporate. A large amount of lime causes crystals to form when spray cools off after boiling. As a result it was necessary to apply the spray hot, a disagreeable condition to use it in. Now we use less lime by nearly one-half and the crystals do not form, which permits the operator to ap-

ply cold. The amount of materials now recommended is 8 to 10 lbs. of unslaked lime, 15 lbs. of sulphur, to 50 gals. of water. This strength materal is to be used only when trees are dormant or before the leaves have opened to any extent. For summer spraying dilute to five times the above amount, or to 250 gallons,

Heat a little water in an iron kettle or in a barrel or other wooden vessel if steam is employed. Put in the lime and when nearly slaked, add the sulphur which has been made into a paste by the addition of a little water. Stir thoroughly, add water as it evaporates away and continue boiling for an hour. The mixture can then be diluted to the proper amount, i. e., to 50 gals., if for spraying before growth is well started, or to 250 gals. for summer spray.

We would advise those interested to read Mr. Hartman's article in our issue of March 12 and also one by Mr. Hutchins in the January 22 issue. It must be kept in mind that the preparation described above is not what Mr. Hartman speaks of as self-boiled lime-sulphur spray.

SAVING THE PEACH CROP.

For years the peach brown rot has been recognized as a most destructive disease of stone fruits. This is a fungous disease, and it is widespread, and very destructive to the peach crop. The loss which it inflicts on peach growers will easily average \$5,000,000 yearly. The loss to the peach crop of Georgia alone is estimated at \$1,000,000 a year.

Much work has been done with a view to discovering a satisfactory remedy for this trouble. Spraying with diluted Bordeaux mixture has been most commonly recommended, but its injury to the foliage has made it unsatisfactory, since the remedy must be applied during the growing season.

The peach scab (often called "black spot"), is another disease which seriously affects the peach crop in all sections east of the Rocky Mountains, although not causing such serious losses as brown rot.

As the result of experimental work by the U.S. Department of Agriculture, a cheap and simple remedy for this disease has been found in the self-boiled lime-sulphur wash. This can be applied during the growing season with very little danger of injuring the fruit or foliage, and it is very effective. Furthermore. by mixing arsenate of lead with the fungicide, the curculio can be destroyed at the same time.

ON NUT CULTURE.

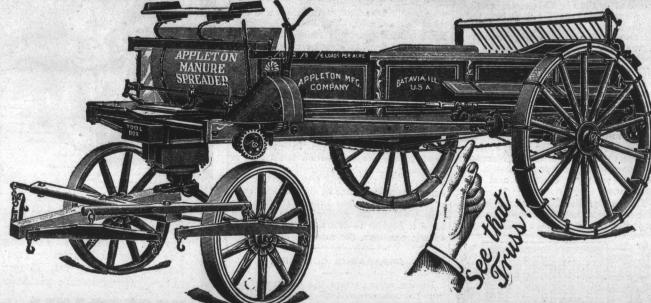
The beauty of the farm would be greatly enhanced by a judicious planting of nut trees along the fence rows. damage done to crops in the bordering fields will be offset by the value of the trees and annual crops of nuts.

With a limited knowledge of the needs of nut trees there is reason for not planting extensively, but considering the demand that is now being made for nuts there is every reason why farmers should encourage some trees to grow upon their premises.

Dame nature has so planned it that every locality is supplied with a kind of nut that will thrive. In the south the pecan is supreme, the chestnut rules along the Ohio valley, while the north enjoys the fruit of the hickory tree. Walnuts thrive everywhere; and all of the above are profitable for nuts, timber and shade. G. E. M.

THE MICHIGAN FARMER.

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Men vote on Tavorite variety of cake. Young people pass samples of home-made candies and give recipes.

GRANGE AND RURAL LEADERS .- I.

It is my firm opinion that more of our country communities are languishingwhere they are languishing-for the want of trained leadership than for any other Where a Grange exists in such a neighborhood, the fault is not altogether " in its stars," if I may be allowed to say so, but because we have not looked far enough ahead and planned to discover, lead out and train young and new material for our Grange guides. We have been absorbed in self-development. has been such a pleasure to talk and do things ourselves that, too often, we have let the possible future supports of our Grange cause slip away from our grasp. What is far more to the point, these same young people have slipped away our farm communities without from knowing that real opportunity stood beside them in their childhood homes.

The time is at hand when leaders, who would be real leaders in this work, must make it a part of their business to develop still other leaders.

In theory any Grange stands as a conservator and constructor of policies for rural improvement along all lines within its jurisdiction. To realize this theory, in practice it must constantly seek to establish and maintain a vitalizing force throughout its departments. This may be done by various means but, with our fast coming changes in farm methods and social customs, we can by no means feel assured that present measures are adequate and that they will work themselves.

The whole rural field offers most alluring rewards for efforts. These efforts, to avail, must be practical-such as will affect every officer; such as will lead him to husband his own time in order that he may read, think and prepare himself for greater efficiency as a Grange officer; such as will induce him to seek association with persons and occasions that will give him new visions and fresh suggestions in neighborhood work.

In future issues of The Farmer I purpose to touch further and more pointedly on this very vital duty of the Grange in the matter of developing rural leaders.

JENNIE BUELL.

GRANGE ACTIVITY IN OCEANA.

It has been my privilege to visit a few of the Granges in Oceana county of late, and a few of my observations may interest Patrons elsewhere. The Grange on the up-grade in this county. Nearly everywhere there is marked improvement.

on the up-grade in this county. Nearly everywhere there is marked improvement. The Grange at Ferry is not large, but a few earnest workers are making it count in their interest. Elbridge Grange ought never to be forgotten by the writer as it was the first Grange organized by him. Sister Maggie Hill is an excellent lecturer and is supported by a large mumber of willing workers.

At a pleasant meeting of Fraternal Grange, in Shelby, on Saturday, March 5, the first and second degrees were conferred upon a class of five and an excellent program was rendered. Worthy Master Fleming is doing good work and the worthy lecturer is not a bit behind, so the Grange is prosperous.

Many subordinate Granges not mentioned here are holding good meetings and initiating candidates. Walkerville Grange, in the northeast corner of the county, fourteen miles from the railroad, is one of the liveliest Granges in Western Michigan. They are initiating candidates, holding good meetings, and doing good work in the local option fight. Cobmoosa Grange is composed largely of young people. They are greatly interested in their work and the Grange is accomplishing much good.

There are a number of invitations out for meetings of Oceana Pomona. The lecture work in this Pomona has always been of a high order. Sister Kellogg was most efficient in this capacity, and when she was succeeded by Sister Evans the programs were equally good. Upon Sister Evan's resignation, Brother E. B. Moore, of Blooming Valley Grange, was selected and he is demonstrating the wisdom of the Patrons who chose him for this responsible position.—W. F. Taylor.

AMONG THE LIVE GRANGES.

New Grange at Odessa Center.—A meeting of farmers was recently held at Odessa Center, Ionia Co., for the purpose of organizing a Grange. Zeno Carter was chosen master, H. H. Lyon, secretary and Lottie M. Durkee, lecturer, the election of other officers and the closing of the charter being deferred to a later meeting. Those in attendance listened to a masterly address by Bro. Ketcham, of Barry Ce., whose topic was "Why I should join the Grange." He said that the principles for which the Grange stands are, faith in God, hope, optimism, honesty and earnest work. One strong point, the whole family may attend. The Grange stands for fidelity and equality. Live, progresive men are behind it and its history is one of accomplishment—the rural free delivery, for instance. Its mistakes will be not weighed by its accomplishments. The Grange takes its plam from the federal sovernment—the subordinate, permona, state and national Granges. The Grange commands respect in legislative bodies. The Grange is doing many things for the farmer and his family. It is learning him to do his own thinking and to put conscientious effort into his work. The Grange is on a solid basis, having a fund of \$50,000 invested in securities.

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Lapeer Co. Pomona.—Both weather and roads favored the last meeting of Lapeer Co. Pomona which was held with Almont Grange. A fifth degree business session consumed the forenoon. After dinner a public session was held in the town hall, Almont Grange opening the program with music. Then came the leading program feature—an able address on Grange work by Former State Master Horton. He urged the strengthening of the Pomona through the building up of stronger subordinates. He also devoted some time to explaining the plan formulated at last State Grange for encouraging Granges to undertake experimental farming under the supervision of college experts. At the close of the program the Grange adjourned to the Grange half, where the fifth degree was conferred upon a class of five. An evening session was held at the town hall, the principal feature of which was a very instructive talk by Fred Farley on curing, selecting and testing seed corn, the value of the talk being greatly enhanced by the presence of a box of sprouted seed which was used to good advantage by the speaker.—Secretary. Lapeer Co. Pomona.-Both weather and

COMING EVENTS.

Pomona Meetings. Clinton Co., with Ovid Grange, Wednesday, March 23.

Emmet Co., at Harbor Springs, Friday, March 25.

Address all communications relative to the organization of new clubs to Mrs. C. P. Johnson, Metamora, Mich.

CLUB DISCUSSIONS.

Observe Lincoln's Birthday.—The February meeting of the Ray Farmers' Club was held with Mr. and Mrs. C. J. Hartway. About 75 partook of the luscious dinner, after which the president, C. S. Priest, opened the meeting. Roll call was responded to by quotations from Lincoln. Two topics, "Are lightning rods a benefit to the farmer?" and "The farmer and the automobile," were so hotly that some of those present said "they could almost see lightning and also feel themselves spinning over the country roads in automobiles. These discussions were followed by a solo by Arthur Downs, after which the Club adjourned to meet March 10 with Mr. and Mrs. E. C. Tewksbury. Everyone went to their homes feeling that they had been well paid for leaving home cares for a while.

Discuss Alfalfa Culture.—The Ray Farmers' Club of Macomh, met with Mr. and Mrs. E. C. Tewksbury the second Thursday in March.— After a bounteous feast for which tables were laid for 60, the president called the meeting to order. An address by C. J. Hartway on "Everyday thoughts for the everyday farmer," was well written and discussed. Can we grow alfalfa successfully." was next thoroughly discussed, in which some thought it could be raised successfully, while others were in opposition. After these lively talks they went to their respective homes, decided on meeting again next month with Mr. and Mrs. Wm. Peters, where maple sugar will be had with the other good things.—Hazel M. Green, Cor. Sec.

Will Make Year the Best in its History.—The Marion Farmers' Club met Tuesday

Sec.
Will Make Year the Best in its History.
—The Marion Farmers' Club met Tuesday
afternoon, February 22, at the home of
Mr. and Mrs. George Nichols in Howell,
and was called to order by the president,
Henry G. Bucknell, who asked A. M.
Wells to lead the devotions, after which Henry G. Bucknell, who asked A. M. Wells to lead the devotions, after which the president delivered his inaugural address and outlined his policy for the official year, i. e., to make this year one of the very best in the history of the Club and asked for the hearty co-operation of all its members and friends. The topic, "The cost of living," was then taken up and many sood things were said. The next subject, "The Parcels Post," was discussed in a lively manner by H. E. Reed, Miss Nortan, Rev. H. Cansfield and Postmaster Smith. Mr. Smith gave a lot of valuable information on the topic, showing the advantages and necessifies for the system, for which the Club tendered him a hearty vote of thanks. During the recess light refreshments were served, after which Miss Lillian Russell rendered a solo that was well received. Mrs. Electus Hadden read an excellent paper on "Woman Suffrage," which was commented on by Miss Norton and others. There was hardly time for all the discussions that the different papers seemed to call for, so after heartily thank-

ing the host and hostess, the Club ad-

ing the host and hostess, the Club adjourned.

The East Otisco Farmers' Club met Thursday, March 3, at the home of Mr. and Mrs. John F. Kohn. Forty-five partook of the fine picnic dinner. The meeting was called to order by President A. L. Benedict. After a short business meeting a good program was given. Following two good readings, came a paper on "The relation of the farmer to the high cost of living," by Jerry Spaulding. This was followed by a lively discussion, the consensus of opinion being that the farmer was not responsible for the present high prices. The middlement were censured and the need of a farmers' organization was brought out forcibly.—Margaret K. Kemp, Sec. Pro. Tem.

Discuss Corn Improvement.—The North

zation was brought out forcibly.—Margaret K. Kemp, Sec. Pro. Tem.

Discuss Corn Improvement.—The North Shade Farmers' Club met in March with Mr. and Mrs. Bemis. They are charter members of the Club, which was organized some fifteen years ago, and have for several years had the pleasure of entertaining the Club for its March meetings. Valois Todd had the subject, "Improvement of Corn," but was unable to be present and Mrs. Nettie Tood read an article from the National Magazine, by J. Mitchell Chappell. It was a fine report of the Omaha corn convention and gave valuable information on improving the quality and yield of corn, the king of all our crops. In the discussion following the reading, J. M. Smith stated that if there could be raised two stalks to every hill of corn, and one ear to every stalk, it would make an increase of nearly one-third in our annual corn yield. Many people use corn as a breadstuff instead of wheat and it is our chief bread material. Walter Huyck recommended setting aside perhaps an acre of corn each year to develop for seed purposes. Cut out suckers and the barren stalks and cut off tops about one joint above ears that were not properly developing, and by such methods and careful tillage, develop an improved strain. E. C. Dobson spoke of picking ears that were well developed and ripened early for seed, so as to shorten the required season in this latitude.

"Postal Savings Bank" was assigned to A. L. Bemis. He said the word bank is

quired season in this latitude.

"Postal Savings Bank" was assigned to A. L. Bemis. He said the word bank is used seemingly for want of another simple word to designate a place to deposit money, but that postal savings banks are in no proper sense banks in the many countries that are using them, and are not designed to be banks in this country. Their object is, first, to furnish a safe place of deposit for the wage earners and the poor for small savings to be deposited with the postmasters throughout the not designed to be banks in this country. Their object is, first, to furnish a safe place of deposit for the wage earners and the poor for small savings to be deposited with the postmasters throughout the country, and secured by the government. Second, to help teach the saving habit to a class of people not now using the regular banks. Third, to draw back into circulation millions of dollars now hid away by people who fear the banks, and, fourth, to hold in this country millions that are now being sent in postoffice money or ders annually to foreign countries by our immigrants who are familiar with the postal savings banks in their native countries. Postal savings banks are nothing new. England established them in 1861; Canada, 1868; Belgium, 1869; Italy, 1876; France, 1881; Austria, 1883, and Sweden. The Netherlands, Hungary, Japan and other countries are also in the list. Probably the first actice movement in the United States for postal savings banks was begun by Postmaster General Creswell in 1871, when he made a recommendation to congress asking for their establishment. He kept up the agitation for the folowing two or three years. In 1880, Postmaster General James and Howe continued it in 1881 and 1882. Wanamaker in 1889 and 1890, and so on down to Meyer in 1998, and with the struggle in the present session of congress over the matter, you are all familiar. The postal savings bank bill is the leading administration measure and President Taft is giving the whole weight of his influence in its favor. The measure has been more than self-supporting in foreign countries and we are assured that the same would be true here. The chief opposition has come from the banks, although the experience of other countries does not sustain the fears of the banks that postal savings would interfere with their business. But the banking interest seem to believe that by some inherited right they should have the sole privilege to receive yeur money on deposit with little or no interest and loan it out to your neighbors at the hig quent reference to the last report of the United States senate committee on post-offices and post roads.

United States senate committee on postoffices and post roads.

Wm. T. Hill took up the discussion of
the subject and said that he had worked
with gangs of foreigners on the railreads
where it took twenty thousand dellars
to pay them off every pay day and that
as soon as they got their money they
made a "B" line for the postoffice and
bought a money order and sent it to their
home country to be deposited in the postal savings bank for safe keeping. He
said that until very recently our nearest
genuine savings bank had for years been
in Grand Rapids. He gave a good description of the practical working of postal savings banks in England and Canada.
You can deposit in one postoffice and if
you wish to travel or move, you can draw
the money out at any other designated
office in the same country. Other persons
spoke briefly on the subject. The Club
will meet the first Friday in April with
Mr. and Mrs. E. C. Dobson.

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