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ARMING is not a science. It is not a profession. It is pursued primarily not for gaining knowledge, but for gaining a living. Consequently it is a business. Management spells either sucdo we see farmers in the same neighborhood, on the same size farm, beginning life as farmers under similar conditions, one making a success out of life, the othmaking a failure. What is the cause of this? Management. One is a business man, the other has pot learned to apply business principles to farming. ment is everything in farming. Yes, it is the "whole thing." It is "it."

The most learned man in the world in agricultural science might make a dismal failure when it comes to farming, while the ordinary fellow, with a common sense understanding of things, might make a success. The reason would be that he is a manager. Then what is farm management? It is simply doing the right thing at the right time. Of course, one must have a knowledge of farming in order to be a good manager! One can't know too much about plants and animals, about soils and fertilizers, about the sciences that relate to agriculture, but he can know all about these, and yet make a You must not only failure on a farm. know how to do things, but you must do You must apply your knowledge in a practical way to the common everyday affairs of farming. If you can do this then you are a good farm manager. What are some of the things that a farm manager must do in order to make success? Why, he must know the right kind of pigs to keep, he must feed them the right kind of rations, he must feed them in the right way, and at the right time. He must not only know how to put in a crop of oats right, but he must know when to put it in, and when and how to harvest it. He must fix the fence before the cows get into the corn, not after they get in. He should remember that the Good Book says that there is a "time to march, and a time to pray," and when it is time to be marching he should The farmer should have not be praying. such a knowledge of all the details of farm work, that he sees constantly the relation of all the phases of farm work the one with the other, and so acts and manages, that everything works in harmony. If he can do this he is a farm manager and will make a success on the farm, and his success, in a greater or less degree, is measured by his ability to do

Farm management requires very careful study. To be most successful, one should begin at the very beginning. the first place, select a farm adapted to the line of farming which you wish to pursue, or else adapt your line of farming to the farm which you have. You cannot make the greatest success unless you do If one has a natural stock farm, he will not make the greatest success by trying to make a grain farm out of it. He must take into consideration his location, when he decides upon the line of farming which he wishes to pursue. If one is to raise fruit, or potatoes, or sugar beets, or that line of farming, he wants to be fairly near a market, and he ought to have good roads. If he is far away from a market and has poor roads to go over he had better manufacture as much as possible on the farm and save the hauling over long and poor roads. It would be poor management indeed, to sell hay, where one had to haul it a long distance over poor live stock and reduce its bulk by produc- right time, and yet there seems to be no ing an animal, or an animal product. In alternative, and we must consider this make money.

FARM MANAGEMENT

After one takes into consideration the into consideration carefully in farm mancess or failure in business. How often farm and its location, and selects his kind agement. What will be our plan? Shall of product, then he must make plans for we plan to get along with as little hired his particular kind of farming—have a help as possible, or shall we plan to use system. This system will be improved all that we think we can possibly use on ESSENTIAL POINTS IN FARM MANfrom year to year as experience dictates, the farm? This will largely depend upon but unless he has a plan at the beginning the manager. If he has a faculty of gethe will lose much time, and consequently ting along with hired help, if he can so much money. After he has found a farm plan his work that the men are profitably for his special kind of farming, then he employed, then he ought to use all the

must study the details of the farm; work help that he possibly can. But on the them out carefully, theoretically at first, other hand, if he hasn't the faculty of

These Farmsteads Show the Result of Good Farm Management, Even in Winter.

amount of capital he has at his command, get along with as little help as possible. and make his plans accordingly. If one of farming requires a larger outlay of head work instead of hand work. Cerupon investments, than others, and this do the physical labor upon the farm; we

which theories will be modified by prac- successfully managing help, getting them tical experience as he gets into the work. to do things in the right way and at the The farmer, even after he has gone thus right time, with little friction, then he should take into consideration the ought to modify his plans, and plan to

The fact is, that farming is a mighty has sufficient means to do business with, complicated business, and the farmer do business in a different way must realize that, in a great measure, his than if his means are limited. One kind success as a farmer will depend upon a longer term of years to realize tainly he must work, or get some one to



A Row of Sturdy Maples in Winter "Foliage." Farm of Mrs. C. M. Reese, Cass Co.

must be taken into consideration with cannot get along without it; but at the handicapped in the successful manage-

other things or he will make a flat failure same time, the labor cannot be well emout of it. A great many farmers are ployed if the head does not plan before harnesses are in good condition and the the hand is called upon to act, and withment of their farms from a lack of work- out such planning much effort will be ing capital. This many times prevents lost. A farmer makes a great mistake in roads. He might better feed the hay to them from doing the right thing at the a business way, when he works so hard and it is poor economy to use either when physically that he incapacitates himself for mental work, this way he would reduce the bulk of and act accordingly, else we are not first- work, the plans, the reasons must come product to be hauled to the minimum and class managers. The hired help question must be taken worked out before he attempts to perform coming from to carry out our plans. If

Willing hands are a good thing, them. but a business head is absolutely necessary for a farm manager. It will bring success instead of failure, profit instead of loss. Knowledge of agriculture is power, but management is everything.

COLON C. LILLIE.

AGEMENT.

1. Planning the Work.

The first essential to any kind of work is the plan. A farmer without a plan is like a ship without a chart or compass; he may expend energy enough to reach a desired goal but fall short of it because he did not continue in the same direction, following some well defined plan. Then too, if we set our mark and work toward it persistently we will be reasonably sure of attaining it, for where there is a well defined plan and a will to follow it, a way is almost certain to be found.

This plan should usually include the making of one or more branches of production our leaders, and making other branches subservient to these. If dairying is to be our specialty our plans should be so laid as to make other branches of farm work subsidiary and contributory to this.

During the winter months the coming season's work should be carefully outlined. The crop rotation and acreage, the treatment and care of each crop and field, the amount and kind of stock to be kept as proportioned to the crops to be grown, the care to be given the garden and orchard, the permanent improvements to be made, and many other questions that will suggest themselves as we study our particular problems.

We must remember, however, that the plans may need to be varied as the season or seasons progress, and we should make them sufficiently elastic to be varied in detail as occasion requires but without swerving from our main purpose unless insurmountable olstacles are encountered.

Preparing for the Work.

After the plans for the season's work are carefully outlined we should make everything in readiness to carry them out. So far as possible these arrangements should be made during the winter months. The list of tools, stock, fertilizers, seeds, fruit packages, spray chemicals household supplies, or other material or equipment needed should be prepared, makes and prices ascertained, and purchases made so far as possible before the busy season opens.

Then we should look to the repairs. Tools should be examined and repaired if necessary to put them in order for another season. It is a good plan to carry a note book and when a tool is used jot down any needed repairs or improvements that suggest themselves, otherwise the matter may escape our notice until the tool is needed again. Repairs on buildings and fences and conveniences in the house or barns should also be looked should be a workshop on every farm, with a bench, forge, and the common tools for working with wood or iron, also a stock of lumber suitable for repairs, and a supply of nails, bolts, screws, and wire of assorted sizes. This may save many trips to town in the busy season and enable one to secure steady help and utilize stormy days to good advantage. We should also see that the teams properly fitted for the spring work before it is upon us. Poor teams or harnesses are as undependable as poor tools, we consider the inefficiency and danger because the mental of delay during the busy season.

If ready capital is not available it is well to ascertain where the money is return the money invested, with interest, to associate ourselves with a good bank, confide in its officers, let them handle our money and gain their confidence so they Every farmer can at times borrow money bills, or make purchases when supplies are the borrower has money in the bank drawing interest.

If help is necessary either indoors or out, we should secure it early and have enough to carry out the work planned. We do not want help to support in idleness but should strive to keep them at work at something that will earn us a little more than we pay them, leaving us a margin of profit on each one employed, nature, dictates. Considered in this way, help should not be regarded as an expense but an investment which should produce an income. If possible, secure competent help that will stay by you for several years. I like to have help from whom I can learn something, and try to encourage in them the same receptive spirit. Use them well, work with them if possible, sharing some of the most disagreeable jobs, giving them an occasional holiday, treat them as your equals and they will be ever ready to do the right thing by you.

Carrying Out the Work.

We should try to follow the plans laid out, as closely as practicable. The farmer who allows every unfavorable breeze to turn his sails will not get anywhere. See that essentials are carried out and get the non-essentials when you can. For example, spraying, harvesting, and cultivating must come in season, while manure hauling, pruning, or corn husking may be put off a little. If you have help, study them to determine what they like to do and can do well, and let them follow the kind of work for which they are fitted as much as possible. In general, more will be accomplished by bunching help and working with them or having a competent foreman do so, taking one thing at a time and finishing it so far as possible, though of course, this rule must be varied at times.

It will pay to be neat, do everything well, and keep up the tidy appearance of buildings, yards, orchards, and fences. It will pay in dollars as well as in satisfaction and enthusiasm.

We should try to arrange our work so it is adapted to weather and soil conditions as far as possible. This will make the work more agreeable and better results will be secured. For example, select quiet days for spraying or handling straw or hay, cool days for sawing or splitting wood, warm days for pruning, and cultivate or hoe when the soil is in proper condition to perform the operation easily and make it most effective.

Another object to be sought is the arrangement of work so as to save time and labor in going from one part of the farm to another, or in changing teams or tools. For example, if there are several patches to be cultivated we should aim to do it on the same day and in such order as to save unnecessary change of tools, and where possible lay out the work so a certain part of it may be completed by noon or by night and save return trips to distant fields for a half hour or an hour's labor. This is simply a crude illustration ful farm management will eliminate a useless waste of time. These things turn the scale between profit or loss in a large factory, and while we may not realize it, the lack of attention to labor-saving details causes a big leak on many farms.

We should also do our work in season if we would reap the best rewards for our Some farmers are continually doing one thing when they should be doing should, of course, be broken, and when They are plowing for corn when they should be planting or cultivating it, cutting frosted fodder when they should be husking it from the shock, spraying the orchard when it is too late for best results, or picking the apples after the These farmers are largest have fallen. just far enough behind with their work so that their procrastination eats up their profits. Too much work or inability to get help are usually ascribed as the cause, when in reality the proper diagnosis in nine cases out of ten is habit or lack of managing ability. Let us beware of the in farming than any other practice.

we have faith that their fulfillment will veal the fact that in general the distributors receive more of the consumer's dolwe should not be afraid to borrow if nec- lar than the producer does. This is a essary, to carry them out. It will pay us problem which requires considerable foresight and business ability, and with it should be studied the question of judicious buying. With some products, such as will accommodate us when necessary, fruit, garden truck or dairy products, for example, it is possible to seek a special with advantage to himself to increase his market, either local or distant, and sell business, take advantage of discounts on direct to the consumer with no deductions other than packages or transportacheap. This can often be done even when tion charges. In other cases it may be feasible to co-operate with other farmers and handle products direct or purchase farm supplies in the same manner. The proper time to buy or sell requires some study and knowledge of market conditions. As a rule, we should buy early before orders are rushing, and sell when our best judgment, coupled with a knowledge of market and crop conditions and human

4. Accounting for the work

It is not enough that we use good judgment in planning, preparing for, and carrying out the farm work, we should also keep an accurate account of this labor so that we may know the exact cost of each crop and the gross and net proceeds therefrom. It is essential to proper management that we know whether a given crop or a certain kind of stock is a paying or losing branch of the business. If a large factory could be found which keeps no account of its cost of production and the receipts from its various lines of manufacture, you would immediately mark it for failure. Just so with the farm, which is simply a more complicated factory, as it has more indeterminate factors, such as weather conditions. If the farmer's margin of profit was not large and his living expenses small he could not survive the lax business methods so generally employed.

The system of farm accounting need not be extensive but some plan should be adopted which will show: (1). The cost of growing each crop or kind of stock. (2). The gross receipts from the crop or class of stock. (3). The net profit or loss from the same. These are esesntials. By combining these figures we get the total profit or loss from the operation of the As many auxiliary accounts may be kept as desired, such as the cost of permanent improvements, of labor that can not be charged to a crop or stock account, of household expenses, and of lux-These are important in regulating the dishursements of the farm earnings, but the foundation facts which every farmer should know are the cost, receipts, and profits from each line of his farm operations.

Calhoun Co. S. B. HARTMAN.

RAFTERS FOR ROUND ROOF BARN.

Please describe the method of making Afters for a round roof barn. 'Midland Co. D. H. S.

The round roof barn is framed like any other barn, excepting the rafters for the roof, which are built up of inch strips of the width which it is desired to have the thickness of the rafter. This may be from three to four inches as desired. Any good lumber is suitable for making the rafters, but elm or ash strips may be used if available. First a form should be made with the curve which it is desired the rafter to have. Then the rafter is started by bending the inch strips around the form, nailing them together as each one is added until the required dimensions of one of the many ways in which care- of the rafter are secured. As the outside of the finished rafter will be a little longer than the inside, all the strips being thoroughly nailed together, the rafter will retain the curved shape without staying until placed in its proper position in the The shape of these curved barn roof. rafters gives them the greatest strength possible for the material used in them. In building up these rafters the joints well nailed they form contin in one piece which is stronger than the self-supporting kind which are spliced in the center.

FITTING FALL PLOWED GROUND FOR POTATOES.

I plowed down a heavy sod last fall, harrowed it twice and disked it twice. It is part clay and part sand. Which would be the best, to plow or disk in the spring r early potatoes? Ionia Co. W. T. G.

This ground should preferably be disked habit of procrastination for I believe it or cultivated deeply as early in the spring causes more slovenly farms and failures as the ground can be worked to prepare it for early potatoes. The old sod has The question of judicious marketing is not had time to decay so as to make it in the meantime, the potash business of much significance in farm manage- advisable to turn it up to the surface in is getting lots of effective advertising. ment especially since investigations re- fitting the soil for potatoes.

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PRICES PLEASE FARMERS AND DEALERS.

Sales to Them Increase.

The long published statement regarding the potash situation, signed by Mr. Bradley and others, contains some near truths, much argument and some opinions of attorneys, the latter being evidently influenced by their clients' presentation of their troubles. All of these need to be considered in connection with the following facts:

Mr. Robert Bradley did not sign the contract July 1, 1909, but according to Mr. Schmidtmann it was signed by Mr. Peter Bradley in New York, August 18. The statement of the Prussian Minister of Commerce in the German Parliament on July 7th contained the fol-

THE MICHIGAN FARMER.

"Being a man of caution, I have already drawn up a prospective law, which naturally I have not yet placed before the Bundesrat. Now everybody knows where he stands and can arrange his business accordingly. Whether the potash syndicate will be formed is not material The question rather is, whether it will be possible to counteract the consequences detrimental to the general welfare.'

It is quite inconceivable that Mr. Bradley should not know of this on August 18th, when the contract providing that "any export or import duties or other governmental charges which may hereafter become effective within the life of the contract shall also be paid by the buyer," was signed.
Under the circumstances the signing

was a speculation which so far has not been successful, but he made a bad guess on what was going to happen, and Mr. Schmidtmann out-traded him.

The other 68 buyers who see fit to cast their lot in with Mr. Bradley had contracts with the Sollstedt mine, which did not expire until 1917. These contracts guaranteed the average price paid by the two greatest American fertilizer corporations, and had they not consented to change them the mine (which had been purchased by another American corporation, the International Agricultural, of which Mr. Schmidtmann is president.) would have been obliged to pay the tax.

However, in September or October they saw fit to sign supplemental contracts in which they assumed all taxes and other governmental charges, German or American. They, too, made a bad guess and were outwitted by Mr. Schmidtmann.

The trade lists show about 600 fertilizer manufacturers in the United States, so that only about one-tenth of them are represented in the present contention. Among those who are not asking the government for help in trying to get an advantage over their competitors is the Virginia-Carolina Chemical Co., the largest fertilizer corporation in America. On the contrary, the German mine Einigkeit, controlled by the Virginia-Carolina Co., recently joined the potash syndicate.

Mr. Bradley's ideas on conservation seem to consist mainly of "filler." The fact that the law requires an increase of at least five per cent yearly in the quantity mined proves that there is no intention of limiting production. The conservation policy of the law is that the mining shall be so regulated that mines more favorably situated shall not export their products at a price lower than the average cost of mining and lower than that for which the Germans themselves can secure the same products.

We have every reason to believe that the German Foreign Minister did not assure Ambassador Hill that "it would not invalidate or impair the American contracts," but that the assurance was given that a provision would be made s the American buyers need not pay more for their potash than had been paid in previous years. This promise was faithfully carried out and this provision stands in the law, but the buyers have never asked for the liberal reductions which it permits.

Mr. Bradley dramatically inquires: "How, therefore, can Germany afford to start a tariff war with the United Germany has no such inten-States?" tion. A small but noisy fraction of the American fertilizer manufacturers is trying to convince the American government that it ought to start a tariff war in order to get them out of a bad bargain.

Farmers and dealers are buying direct

Please mention the Michigan Farmer whe in greatly increased amounts at reduced prices, and are quite satisfied with the situation since it permits them to mix their fertilizers at home at much less cost than they can secure them in ready mixed form.

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SMALL VS. LARGE POTATOES.

I notice this old saw is being vigorously filed again, and Bro. Lillie has his troubles about it on account of the skeptics. Lillie is optimistic, because Bro. Woodman grows big crops from small potatoes. The heretical ones scoff, because small kernels of grain are not orthodox. Sciento as infallible guides to perfect success.

I have had my experience in the scientific field, and in the potato field, (30 years where the season of planting ranges from garding seed range from hickory nut to paring the soil, selecting the seed, planthen's egg size, uncut or cut once.

edge enables one to classify various the- piece of land as above described. During cries as to their actual merits. Mr. Lillie the winter previous to the planting I gave has illustrated this by his terse declara- the field a good application of horse mation that small kernels from the crib and nure. This I turned under as early in small potatoes "have no bearing what- the spring as the ground was in condition ever." Mr. Lillie forgot the man who to plow. The soil was harrowed two or did not possess scientific training and is three times before planting, which was asking, why?

cut hoop-pole size, or only whips to seed. Stick in the ground? Small ones, cer-Now as to selecting the seed. I never tainly! Why? For convenience only. have selected seed at digging time as it The big pole would start no larger roots, no stronger buds, and would make no better tree than the whip; but convenience dictates the small size is most practical for cuttings.

kernel of grain, or the cutting of willow, as a source of propagation? It is not a seed at all, and hence not at all like the hence, if the body plant is sound, the small potato is sound and identical with the willow.

But when we go farther, and reason that Jason Woodman built up his yields with small seed, and that he reduced the individual size of his tubers by using small seed, we become both impractical and unscientific. Small seed potatoes, are not seed at all, but are cuttings of plant stems and are preferable only for convenience, and undesirable only when degenerate, (from "run out" hills).

I once saw a field of potatoes in which eight rows planted with cast-off nodulelike potatoes, perhaps one-half inch in diameter, yielded much more than any other portion of the field, (these nodules were screened out of the regular seed). The true reason for extra yield was an old fence row, consequently more plant food where these nodules were used.

So Mr. Woodman's large yields are more likely to be the result of enriched soil than preferred seed. The uniform marketable size of his stock is more likely due to the amount of seed per square yard of soil, than the size of individual

Were it not that the above theories and facts are as capable of being demonstrated in a field of low yield as a field of large yield, I should not presume to declare them, as I never raised a field yielding like Mr. Woodman's and never saw many such. But I have planted an dates from May 10 to July 10, all sizes from hazelnut to cocoanut, all distances apart from rows two feet to four feet, check rowed and drilled 10 to 26 inches apart in drill, used these words-sound seed, used in quantitoo large; good cultivation and barnyard manure.

Few years in my experience of digging. one ideal hill and planted it several years the stand was good. This was an yet to be and the authorities yet to come.

ligion and a fool of a farmer, and get larger. This was conclusive proof along pretty well when the late frosts that the market size of the potatoes don't kill the buds on my fence posts." grown depends upon the amount of seed As Charlie's fence posts were always an planted per acre, rather than on the size ornamental shrub or a peach tree, one of the seed.

knowing him could appreciate his humorous expression.

It is said an optimist sees the fried cake while the pessimist sees only the hole in it. In the potato business I usually satisfy myself with seeing the fried cake, while I am most of the time in the hole. Montcalm Co. JOHN E. TAYLOR.

tific thoughts and principles are alluded HOW A GOOD CROP OF POTATOES WAS GROWN.

Having read the articles in your valued in the potato fields of Montcalm county), paper from Messrs. C. C. Lillie, Woodman and Chandler, with much interest, I May 5 to June 25, and the customs re- thought I would give my method of preextreme size, the general custom being ing and cultivating the potato crop. In the first place I prefer a clover sod one My estimate of scientific capabilities year old, and the soil a sandy loam if it in the potato field is that scientific knowl- is to be had. For my 1910 crop I had a about the 10th of June. At this time we The seeker for information is right, gave the soil a thorough working, after Small kernels of grain are doubtful, if which we took our team and plow to the not bad, but if you were to propagate a field, making furrows about five inches field of willows from cuttings, would you deep and the ground was ready for the

seemed to be too much trouble, as Mr. Lillie has said, but I select the tubers that are all of one size and uniform in shape, and as near the size I want to raise as possible. These tubers are cut Now does the potato resemble most the in one-eye pieces as near as possible and not have them too extremely small. I drop these pieces into the furrows made in the soil about 18 inches apart, one kernel from the crib. It is a cutting piece in a place, covering them about two from the body plant like the willow, and inches deep. Then these furrows are gradually filled as the crop is cultivated and hoed. This last crop was cultivated three times, and hoed. This method keeps the young growing tubers down under the surface away from the sun, without the objection of hilling by ridging up the

At digging time I dug 360 bu. per acre from this field. I do not think there were two bushels to the hundred that were below the proper size for market. I do not think, either, that there were as many as two bushels to the hundred that were as large as my two fists. They were all of a nice, even size. I have, in former years, used small seed but with unsatisfactory results, but since I 1 ve followed my present method I have not had a poor crop of potatoes. I am not saying what have said, to criticize Messrs. Lillie and Woodman, but it does look to me that, if Mr. W. is reducing the size of the tubers by selecting the small seed, it would be difficult to check the downward trend if that practice is continued.

Saginaw Co. A. W. WEAVER.

GROWING POTATOES OF GOOD MAR-KET SIZE.

I have been not a little interested in the discussion of the seed potato question in recent issues of The Farmen particularly with regard to the use of small seed as a means of producing a maximum list. Pick your wheels—pick your number of potatoes of good market size. Mr. Lillie states that by planting small seed he thinks he will get less extremely large potatoes and more of the proper market size, and cites Mr. Woodman's experience as an example. This brings all kinds of machinery, tested all treat- to mind an experience of my own which ment for scab and sum up the battle in has a bearing on this point. A number of years ago, before I had learned the tities to balance the fertility of your soil, importance of plowing the potato ground so stock will grow neither too small nor early, that portion of a 14-acre field plowed last did not contain enough moisture to insure a good stand. After waiting One theory Mr. Lillie alludes to as the vainly for some days for a shower the poideal, was a pet of mine—that is, select tatoes were planted, and, as I feared, a seed from best hills before or at time poor stand was secured on that portion plowed last, while on the side passed when I have not selected of the field where the plowing was begun following, striving to produce an extra ample of poor farm management which good strain. In every case it has been a the writer regretted throughout the sumfailure, and usually soon passes into a mer, as it required just as much work degenerate, undesirable stock. I am still per acre to tend the crop where the stand at it, have my hill of superior quality laid was poor as where it was good. At digaway now, but no hopes for it builded ging time we commenced on the good on either practical experience or scien- side of the field, expecting, of course, tific knowledge. Why? Ask of the crops that the yield would fall off as digging progressed. Imagine my surprise at the That hale fellow, Charles W. Garfield, fact that the yield was just as large when once asked his vocation said, "I'm where there was not over two-thirds of a doubter in politics, a questioner in re- a stand; the potatoes had simply grown A. R. FARMER.

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STATE BREEDERS' MEETINGS.

M. A. C., on Jan. 11-12, as reported in this and the preceding issue. The officers of publication in the Michigan Farmer, and

Michigan Red Polled Cattle Club.

was first taken up. The address of Prof Brown, of M. A. C., was full of interest and instruction. The cement silo was well discussed, and thought to give genshowing cattle at the state fair. Herberson, Birmingham. Reynolds, Port Huron, two years, and E. breeding this type of cattle, and the reabout 90 head on exhibition, this being second to no other breed except the Short-The work of Mr. Myron Convers, and it was voted to ask the association to try and secure his services again this year .- W. W. Woodman, Sec.-Treas,

Michigan Hereford Breeders' Association. The meeting of the Michigan Hereford Breeders was not so well attended as it should have been, although those present Michigan Poland-China Breeders' Asso had a very good meeting. The member-ship was increased over 300 per cent in the last year. The old officers were re-R. E. Allen, of Paw Paw, pres., next winter in connection with the live state. stock meeting.-Louis Norton, Secy.

Michigan Guernsey Breeders' Association.

The third annual meeting of the Mich- body reports sales good and igan Guernsey Breeders' Association since January 11, at 2:00 o'clock p. m. There meeting was called to order by its president, Mr. T. V. Hicks, of Battle Creek. The report of the secretary and treasurer officers were elected for the ensuing year: Grand Ledge, B. M. Wind, Sheridan.—J. Pres., T. V. Hicks, Battle Creek; first C. Butler, Sec. vice-pres., M. A. Burnett, Sand Lake; second vice-pres., H. W. Wigman, Lansing; third vice-pres. John Miller, Bir-No formal program had been Lansing. prepared, but a number of short and in- East Lansing, Jan. 11. The meeting was teresting talks were given by members called to order by Pres. Bray at 2. p. m., of the association and others. Mr. H. with a good attendance of breeders. way, the commercial situation with refersupply of good stock. Prof. A. C. Ander- cholera," excessive booming in furthering the in-Fremont, Hill, of Grand Rapids, and sev- swine breeders in general. regarded as an unusually successful one. -A. M. Brown Sec.

Michigan Shropshire Sheep Breeders'

Association.

The second annual meeting of the Michigan Shropshire Sheep Breeders' Association was held in room 212, Agricultural Building. Meeting began promptly at 10 a. m. A good attendance was present and marked interest was manifest throughout toth forenoon and afternoon sessions. Following the address of the president a Minnesota as low as 32c. With a supercommittee was appointed, consisting of abundance of cheap corn nearly every-Cassius, Alexander, J. C. Butler and W. where it is only natural that farmers P. Pulling, to draft a constitution and should feed as much corn on their farms

THE MICHIGAN FARMER.

present constitution and by-laws made their report and the constitution and bylaws submitted were adopted without debate. As the Shropshire in name is almost a household word among farmers, it was thought best to abridge the name of the state held meetings in connection with E. Powell, of Ionia, after which the meetthe general live stock meeting, held at ing adjourned to the judging arena, where were about a dozen specimens of the breed upon which judgment was passed these various associations were asked to by Prof. R. S. Shaw, H. E. Powell, H. H. make brief reports of the meetings for Hinds, and others. The membership of publication in the Michigan Farmer, and the association was materially increased the following are reports received to date: at this meeting and the feeling was general that this association would fill a long-The meeting was called to order by felt want in bringing together, once a year Pres. E. W. English, and to accommo- at least, the many breeders of this popudate some of the speakers the program lar breed of sheep, for their mutual good. -W. H. Schantz, Sec.-Treas

Michigan Oxford Down Breeders

Association. The fifteenth annual meeting of the eral satisfaction. Mr. Nate Herberson, Michigan State Oxford Down Sheep of Birmingham, gave his experience in Breeders' Association was held in room 115 of the Agricultural Building, at the newly elected officers are: Pres., E. W. Michigan Agricultural College, on Wed-English, Clarksville; vice-pres., Jacob nesday, Jan. 11. 1911, and was called to Berner, Grand Ledge; sec.-treas., W. W. order at 4 p. m. by the vice-president, H. Woodman, Stanton; director, three years, J. De Garmo, of Clyde, Mich. The min-The utes of the previous meeting were read president and secretary were re-elected, and approved. The report of the treas-The balance of the directors are James urer was read and adopted. The several members present reported a very success-Foster, Clarkston, one year. Although ful year, in fact, the most successful of the Red Polls are a comparatively new any yet enjoyed, sales having been large breed in Michigan, the secretary's mailing with prices higher than usual. The secrelist shows about 80 firms interested in 'tary was instructed to get out a printed statement showing the number of sheep port of President English and Superin- each member had for sale. The time and tendent Tyler, of the state fair, showed place of the next meeting was left for the president and secretary to decide. The following officers were elected for the ensuing year: I. Roy Waterbury, Highof Iowa, as judge gave general satisfaction land, president; H. J. De Garmo, Clyde, vice-president; B. F. Miller, Flint, sectreas.; board of directors J. A. De Garmo, Muir; F. W. Bailey, Coral; A. L. Wright, Bad Axe; L. N. Olmsted, Muir, and A. P. Hagaman, Leonard.—B. F. Miller, Secretary

ciation.

The third annual meeting of the Mich igan Poland-China Breeders' Association was held at M. A. C., Jan. 11, 1911. and Louis Norton, of Quimby, sec.-treas. are pleased to report a good attendance The association will meet again at Lansing of the progressive Poland breeders of the We had a very interesting meeting, with a good program as advertised in the Michigan Farmer last week. Everybusiness The Poland-China goming. breeders the organization of that body, was held and the Duroc-Jersey breeders of the in the Agricultural Building at M. A. C., state will hold a combination sale on Feb. 8, 1912, at M. A. C., at which time there were present about 75 people interested will be offered 50 bred sows, 25 of each in the raising of Guernsey cattle. The breed. Officers were elected for the en suing year as follows: Woodman. Stanton; vice-pres., E. D Bishop, Lake Odessa; sec.-treas.; J. Cwas read and approved, and the following Butler, Portland; directors, Geo. Stokes,

Michigan Duroc-Jersey Swine Breeders'

Association. The fourth annual meeting of the Michmingham; sec.-treas., A. M. Brown, East igan Duroc-Jersey Swine Breeders' Association was held at Agricultural College, W. Wigman discussed, in an interesting a short address by Pres. Bray, Mr. John Bowditch, Jr. of the College, gave an ence to Guernsey cattle, referring to the address on "Breeding and management of rapid advance of prices and the limited swine and their diseases, notably hog which brought out some discus son, of the College, made a short talk in sion and a general round table talk. which he cautioned against exaggerated Then came the payment of dues and the statements and comparisons and recom- adding of some new members. The best mended that the association guard against of feeling prevailed throughout, and it was considered the best meeting yet held terests of the breed. Other short talks by the association and all felt greatly enwere also made by Messrs. Rosema, of couraged at the future outlook for the The election eral others. The meeting was generally of officers resulted in the old officers being re-elected, i. e.: Chas. H. Bray, Okemos president: M. T. Story, Lowell, secretary and treasurer; directors, E. R. Cornell, Howell; J. C. Barney, Coldwater; L. C. Morrhall Leslie; H. G. Keesler, Cassopolis.—M. F. Story, Sec.

(Concluded next week).

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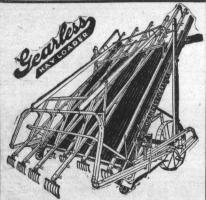
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THE LIVE STOCK MEETING. (Concluded from last week). Beef Production for Michigan.

The above topic was the subject of a most interesting address by Prof. H. T. Handshin, of the University of Minnesota, who spoke in the place of Prof. An-Boss, of that institution, whose name appeared on the program. Prof. Handshin's talk was of a nature to prove and feeders of Michigan. His message

was one of encouragement to the breeder, provide the sires for the breeding of the high grades upon which the permanent the session, and was particularly happy industry of beef production must be at this time when there is need of en-While the speaker expressed the opinion that pure-bred cattle could duction in Michigan. be made to pay out where kept for the production of beef, any calculation or prediction regarding the business of beef C. production must be based on grade cattle, Hampshire Sheep Association, and wellsince they are the only kind that will be

available in quantities to supply the foun-

dation for the business.

The elements to be considered in the problem of beef production are the cost of the cattle and the feed, and the overhead expense incident to the business, consisting mostly of labor and housing for the cattle. Regarding the cost of the cattle and feeds, Prof. Handshin stated that the cattle feeders of the past, and siderable factor in wool production, but to a somewhat less extent those of the that this industry had declined in propresent day have been able to purchase form of by-product grains which have to produce wool and mutton from the been available at comparatively cheap prices; but he expressed the opinion that tem, and as the supply of western range at no very distant date in the future the bred lambs is declining and will continue producers of beef will have to raise a to grow smaller in future years, our larger percentage of the cattle fed and a process of beef production than they do for the most profitable mutton production at the present time, and since the con- they should be bred with that end in duct of the industry should be based on the idea of permanency these are factors which should be well considered.

In this connection Prof. Handshin stated that it is a common idea among farmers that beef production cannot be profitably engaged in on high-priced Michigan lands. He undertook to show the error of this theory by pointing out the fact that beef production flourishes in southwestern Indiana, in central Illinois, in Iowa and in the southern part of Minnesota, and other states similarly located as nowhere else in this country, and yet the farming lands in these sections sell for higher prices than are reached by the agricultural lands of any other section of the country. The idea that high-priced land is not a handicap to the business of beef production was further emphasized by referring to Scotland, and some sections of England, where beef production is the principal industry in counties where the land values are higher than in the states above mentioned, and the available feeds are mostly straw and roots and American cottonseed and oil meal instead of cheap corn silage which is everywhere available in this country, together with the same by-products which are cheaper here than abroad.

These illustrations served to emphasize the point that successful and profitable beef production does not depend so much on the price of the land on which the industry is conducted, as upon the relation of the crop-producing power of our land to the amount of labor that is available. The labor supply is a big problem, and its limited supply is an argument for

upon conditions, he favored feeders 🕭 the better class for most profitable results, and silage as the basis of the ration in growing and finishing them. He stated that it had long been conceded that silage was the cheapest and best feed for the dairyman to make the basis of the ration

for the dairy cow, and that the more experiments that are conducted and the larger the number of practical trials made by feeders the more silage is being fed to steers with profit. He referred to one experiment in which it was shown that a bunch of steers fed on silage alone made more profitable gains than any others fed in the same experiments, and although he did not advocate this method of feeding he used the result as an argument for an inspiration to the beef cattle breeders the liberal use of silage in the production of beef, as in the feeding of other farm animals aside from the dairy cow. Prof. since the breeders of beef cattle must Handshin's address was at once one of the most entertaining and profitable of couragement for the business of beef pro-

Mutton Production in Michigan.

This subject was ably handled by Mr. A. Tyler, Secretary of the American known member of the State Live Stock Sanitary Commission. Mr. Tyler described the growth of the lamb-feeding industry in Michigan from its beginning until it reached the high mark in 1904, when the lambs fed in Michigan were purchased at a cost of over \$4,000,000 and brought in the Buffalo market something like \$6,500,000. He called attention to the fact that Michigan was formerly a conportion with the increase of the business their feeders from western sources and of mutton production. He stated that a considerable portion of their feed in the while some were still engaged in trying same animal, it was not a profitable systo grow smaller in future years, our sheep feeders must produce their own greater proportion of the feed used in the lambs, and if they are to produce them view. But in addition to producing the lambs we must learn to feed them in competition with western mutton producers who grow their alfalfa on irrigated land. We must learn to grow alfalfa on our own land, and with more clover and alfalfa and less corn grow our lambs at less cost. It is not difficult to do, and there is plenty of room for the expansion of the industry in Michigan. Mr. Tyler pointed out the fact that our American pepole have developed a taste for mutton, and will continue to demand more of it until, instead of less than one sheep for each person in Michigan our mutton sheep industry will be four or five times as great as it is at present, and this will be accomplished through the liberal of home-grown alfalfa and corn, together with the clover which we now grow. Mr. Tyler's talk was an eloquent plea for the expansion of the business of producing mutton in Michigan, by the method of raising the lambs as well as growing the feed for them on our own farms. This address closed the program for the general session. The officers, elected for the ensuing year were as follows:

The New Officers.

President, R. C. Reed, Howell; secretary, Prof. A. C. Anderson, East Lansing; assistant secretary, S. B. Wattles, East C. S. Bartlett, Pon-Lansing; treasurer. tiac; directors, T. F. Marston, Bay City; W H. Schantz, Hastings; H. H. Hinds, Stanton; G. M. Brownell, Detroit, and F. R. Crandall, Howell.

Attention is being directed to the falland its limited supply is an argument for beef production rather than the following of some line of farming which requires a relatively larger supply of labor. Another factor to be considered is the amount of money to be invested in buildings and equipment as compared with the amount of money invested in the land itself. It was pointed out by the speaker that the money invested in buildings and equipment depreciates rapidly, while that invested in land appreciates through the rise in land values, which is another argument for the business of beef production. Since this business requires a relatively smaller investment in buildings and special equipment than any other branch of live stock breeding or feeding. After impressing his hearers with the possibility of making beef production a profitable business in Michigan, Prof. Handshin spoke briefly of the kind of feeders to get and what and how to feed them. While this depends not a little upon conditions, he favored feeders to get and what and how to feed them. While this depends not a little upon conditions, he favored feeders to get and what and how to feed them. While this depends not a little upon conditions, he favored feeders to get and what and how to feed them. While this depends not a little upon conditions, he favored feeders to get and what and how to feed them. While this depends not a little upon conditions are farming of in the numbers of stocker and feeder cattle in recent years. Such shipments from the five principal western markets amounted in the aggregate during the first eleven months of 1910 to 1,587,163 head. compared with 1,533,263 in 1909, 1,501,364 in 1908 and 1,720,988 in 1909, 1,501,364 in 1908 and the five celven months of the aggregate during the first eleven months of 1900 to 1,587,163 head. compared with 1,533,263 in 1909, 1,501,364 in 1908 and 1,720,988 in 1909, 1,501,36 ing off in the numbers of stocker and intending buyers from feeding districts.

More cattle, lambs and sheep were forwarded from Chicago during 1910 to feeding districts in the corn belt than ever before, the enormous corn crop and comparatively low prices for that grain encouraging farmers to carry on stock feeding more extensively than usual.

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

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

Cracked Heels.—When running in pasture last summer the heels of my four-year-old colt cracked. I treated them with home remedies and she appeared to get well. A month ago her hind legs began to stock, and although the skin is not chapped much her legs are badly swollen and I would like to know what to do for her. C. G. W., Bentley, Mich.—Feed your mare less grain and more roots and well-salted bran mashes to open her bowels; also give her a dessert spoonful of ground nux vomica and two tablespoonfuls of cooking soda at a dose in feed two or three times a day. Bandage swollen legs in cotton, not too tight, and keep her legs dry. It is also important that she has daily exercise.

Foot Soreness—Indigestion.—I have a horse that is sore and stiff in both fore feet. He seems to suffer much less pain in warm weather than cold and he backs out of a stall with great difficulty. Exercise seems to bring some relief. When turning around the fore feet are extended far in advance of body. I forgot to say that he travels best in soft snow. I also have another horse that is out of condition and passes thick, yellow urine. F. W. P., Grant Mich.—I am inclined to believe that your horse suffers from chronic laminitis (founder), and the foot soreness will be relieved somewhat by using a wide-webbed, rolling-motion shoe with leather sole, and packing bottom of foot with tar and oakum; besides, apply lanolin (woof lat) to wall of hoofs once a day. By blistering coronets with cerate of cantharides every 10 days it will have a tendency to reduce the lameness. Give your other horse a tablespoonful ground gentian, a dessertspoonful of powdered rosin and a teaspoonful of ground nux vomica at a dose in feed two or three times a day. He should be fed some roots, and perhaps more grain.

Acid Condition of Urine.—I have a horse that I believe must have bladder trouble on account of his passing small quantities of urine at a time, and far too often. W. M. G., Traverse City, Mich.—Give 3 drs. of citrate of lithium at a dose in feed or water tw

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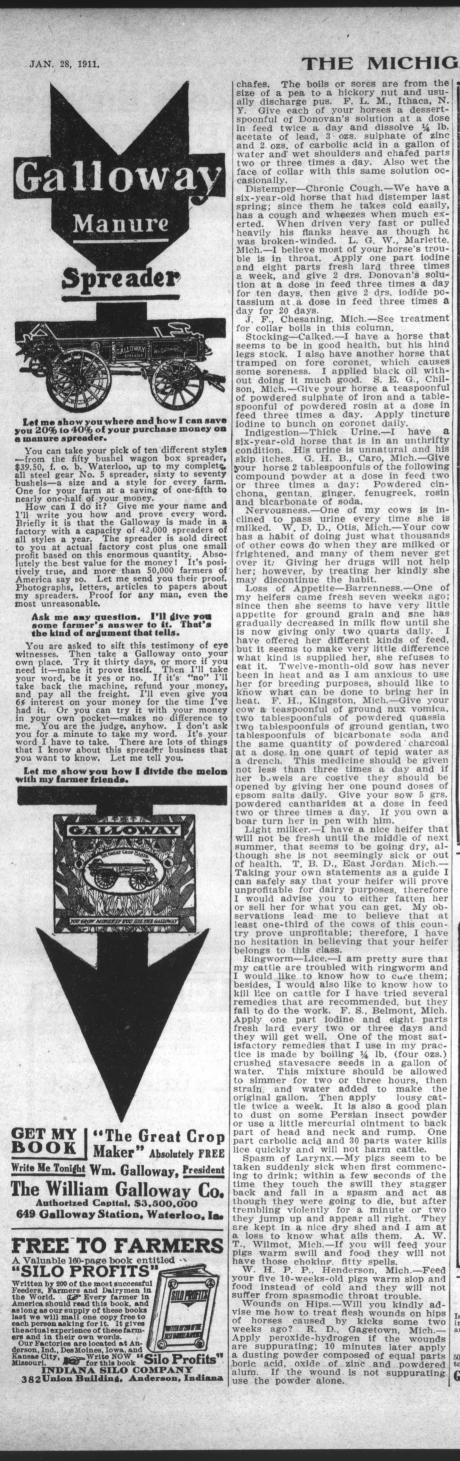
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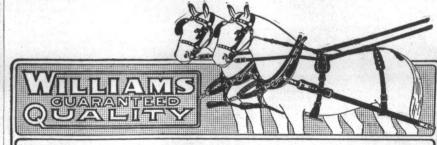
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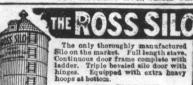
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THE DAIRY

CONDUCTED BY COLON C. LILLIE.

A RATION RICH IN PROTEIN.

I would be pleased to get information through the columns of your paper regarding a balanced ration for my cows. I have five cows in number, grade Jerseys. I am feeding ensilage, about 35 lbs. daily, two feeds, morning and evening, with about 4 lbs. of gluten feed and about 5 lbs. of linseed meal (old process), and a basketful of raw beet pulp. At noon I feed a little mixed hay or cornstalks. I have made no practice of getting any pulp ahead. I do not know how to keep it from spoiling and when I stop feeding beet pulp the milk quantity decreases slowly. Now what should I feed in place of beet pulp to keep ap supply of milk? Should I feed more gluten and oil meal? I have fed oil meal (old process), and cottonseed meal but I am of the opinion that I get more milk from gluten and have less trouble with cows' bags. But how is it with the fertility, is there as much fertility in gluten meal after same has passed through the cow as in other concentrates? My sliage is very rich in corn but it is cut quite late on account of wet weather.

Ottawa Co.

Four pounds of gluten feed and five pounds of old process oil meal make a ration which I think is richer in protein

pounds of old process oil meal make a ration which I think is richer in protein than there is any necessity of, and consequently too expensive. This amount of these two feeds would make about three pounds of protein per day, and three pounds of protein per day in the concentrated part of the ration alone is more than is necessary. I realize, of course, that you lack clover hay, but you have one feed a day of mixed hay and all the ensilage the cows will eat, with beet pulp at noon. I would not think the cows ought to drop off very much when you deprive them of beet pulp at noon with this ration, where they have corn silage at night and morning and such a liberal amount of grain, but I am inclined to think that your cows are overfed, and that you would get just as good results if you feed less of this rich grain. I believe that you could substitute a cheaper grain ration for the one you are now feeding, and get just as good and perhaps better, results. I would recommend that you mix one-third of your grain ration with corn meal, which is much cheaper per ton now than either of the foods you are feeding. Mix, for instance, 100 lbs. gluten feed, with 100 lbs. of corn meal and 100 lbs. of oil meal. Now, instead of feeding the same amount of grain to each cow, feed each cow as many pounds per day of this mixture of grain as she produces pounds of butter-fat in a week. All cows in a herd do not require to be fed the same ration. They ought to be fed according to the work which they do; that is, according to the amount of butter-fat which they produce. A cow that is only producing six or seven pounds of butter-fat in a week, ought not to have as much grain as one producing 12 or 14 pounds, neither can we afford to feed them as much. If we do feed them as much, then we are actually overfeeding and wasting feed, consequently we are lessening our profit very materially.

While beet pulp makes a nice appetizing food for the cows at noon, as long as you have plenty of corn silage, it does not seem to me that they would suffer for a succulent food, and I believe that if you will follow my advice you will feed your cows more cheaply than you are now, and get just as good results. If the cows would eat a little more corn silage at noon, you might feed them a feed of that, if you have plenty of it, providing you cannot get the beet pulp.

I am of the opinion that gluten feed is about as good a concentrated food as you could buy. I know farmers who would prefer to have this than cottonseed meal, although both of them are splendid concentrated foods. You say that when you feed cottonseed meal you have some trouble in getting your cows to breed? Also that you have some trouble with caked udders. Now this leads me to believe that you are feeding more protein in your ration than there is any particular use of. making the ration both detrimental and extravagant.

The cow's manger should be cleaned, it should have partitions to prevent stealing of grain, it should not hinder circulation of good air in front of furnished on a box base, one end of which will receive the meal and the other the coarse parts and the hulls of grain. One to four horse power.

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A BALANCED RATION WITH ALFALFA.

Please give me a balanced ration for milch cows, with the following feeds, regardless of price: Beet pulp, linseed meal cottonseed meal, and corn and oats, mixed equal parts and ground. For roughage I feed alfalfa in the morning, cornstalks at noon and clover hay at night.

Jackson Co.

Be depended of the cream.

Another troughage I feed alfalfa in the morning, cornstalks at noon and clover hay at night.

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which are rich in protein, it will not be seed meal in connection with it. As you partially soured cream. probably well know, cottonseed meal is ration, it may get the cows out of condition. However, with a food like beet pulp there is no trouble whatever, and probably there would be no trouble with beet 25 per cent will give the best results in pulp when fed in connection with alfalfa churning, while 30 per cent will give best or clover hay, for both these foods are somewhat laxative, and since they are, this would also be an argument for leaving out linseed meal, because all of them put together might make the ration too laxative for the best results. I would recommend that you use beet pulp, cottogether, mixed in equal parts; that is, 100 lbs, of beet pulp, 100 lbs. cottonseed meal, and 100 lbs. corn and oats ground together, for your grain ration. A good rule for feeding this grain ration would be to feed as many pounds per day to each cow as she produces seven pounds of butter-fat in a week, then give her seven pounds of the grain ration per day; 31/2 pounds in the morning and 31/2 pounds at night. The roughage part of your ration cannot well be improved upon. It is a splendid ration. If you have plenty of alfalfa and clover hay, you should feed what they will eat up clean, and perhaps you could get along without feeding quite as much grain as I have recommended, although if you have firstclass dairy cows, they will stand this ration, and make you a good profit out of it. Cornstalks can be fed rather liberally at noon, as you would not expect the cows to clean them all up. Allow them to pick out the better portions of the fodder and the balance can be used for

DIFFICULTIES TO CHURNING OVER-COME.

At this time of the year farm buttermaking not experienced during the sumchurning is too low a temperature. Cream, as a rule, must be churned at a higher temperature must be. Cream which will churn nicely at 55 degrees F. in summer churned at a low temperature.

is cooled from 65 to 60 degrees just before period of lactation. Of course reason for this is that the butter-fat cools before she dropped her last calf. If this and warms up much more slowly than is so, she will be all right next year. the other parts of the cream, and hence when the cream is cooled suddenly five degrees the temperature of the butter-fat history to learn of the fraudulent sale of itself may have been reduced only one or oleomargarine as butter. The inefficiency two degrees. Similarly, when cream is of state pure food laws to regulate the warmed up five degrees the butter-fat it- sale of oleomargarine—when it is yellow self may have warmed up only slightly. Cream should be held at the churning cities. The guest at the medium-priced temperature at least half an hour before hotel or restaurant is served yellow oleochurning in order to be sure that the margarine in the majority of cases, butter-fat has the same temperature as the rest of the cream.

Always use a reliable thermometer. We have passed the day when the finger will be depended on to tell the temperature

Another trouble in churning results from too sweet cream. Cream should be held at a temperature of about 70 degrees F. until it becomes distinctly sour. soured cream will pour from a dipper Since the roughage part of your ration like thick syrup, will taste sour and will contains both alfalfa and clover hay, smell sour. The actual per cent of acid at churning should be between five and necessary for you to use both linseed six-tenths as determined by tests especmeal and cottonseed meal to get a bal- ially made for this purpose. Sour cream anced ration. And since you have beet will make better butter and more butter, pulp to feed you can safely feed cotton- and will churn more easily than sweet or

Sweet cream, especially if thin or at a somewhat constipating, and if fed too lib- low temperature, will cause endless trouerally without a succulent food in the ble in churning. With such cream there is more or less foaming and, if very thin, the butter will not gather.

With a five-gallon churn, cream testing results with churns of ten or fifteen gallons capacity. Never fill a churn quite half full. The best churning is obtained when the churn is one-third full.

During cold weather it is easy to keep cream sweet several days, but it should be remembered that old cream will make tonseed meal, and corn and oats ground poor butter. While a low temperature will prevent cream from souring it will not stop other fermentations which give rise to various objectionable flavors in butter. The sooner the cream is soured the better the flavor of the butter.

At this season of the year there is also much mottled (unevenly colored) butter to be found upon the market. Mottled butter is due to insufficient working. which results in an uneven distribution of the salt. Butter should be kept reasonably soft during working to allow the salt to dissolve and penetrate every particle of butter. Cold salt may cause mottles and the safest practice is to have the salt at practically the same temperature as the cream when applied to the

Wisconsin.

JOHN MICHELS.

COW DOES NOT PRODUCE WELL.

Will you advise me through your columns what treatment to give a cow that does not give the amount of milk she gave at the time of freshening? She is in good flesh and seems to be in good health. She was fed ground oats, corn and shredded fodder before and after parturiton. She cleaned a short time afterwards. The calf is quite small. St. Joseph Co. V. J. H.

With such a meagre description of the makers encounter difficulties in butter- case, I cannot give an intelligent reason why this cow does not do as well as she mer season. One of these is the failure ought to. On reading the letter over of the cream to churn in a reasonable carefully, I am inclined to think that he length of time. The chief cause of slow did not have the cow go dry long enough. If she was a persistent milker, and milked up to almost the time of parturition this temperature in winter than in summer, last time, this would have a marked effect This is so because the butter-fat is harder on the quantity of milk which she would in winter. Dry feeds and cows far ad- give after freshening again. Usually cows vanced in lactation (strippers) produce that give milk right up to the next period a relatively hard butter-fat and the hard- of parturition do not give very large er the butter-fat the higher the churning quantities of milk immediately afterward. You can't expect it. The fact that the calf was small would also warrant me in may have to be churned at 60 degrees F. forming this opinion. I believe that, evin winter. Too many have the mistaken erything taken into consideration, it is idea that cream may be churned at the better to have a cow go dry four to six same temperature the year round or that weeks, at least, before they freshen. This the same churning temperature may be gives a better chance for the development employed upon different farms. A farmer of the foetus, produces a larger and who milks Holstein, Friesian cows may stronger calf, gives the cow an opportufind 50 degrees F. a satisfactory churning nity of resting up, or recovering from the temperature, whereas the producer of Jer- former period of lactation. They usually sey cream may find it necessary to churn do better and give more milk during the cream at 60 degrees F. The butter- next period of lactation than where they fat in Holstein cream is softer than that are milked too long. If my theory of the in Jersey cream and hence must be case is correct, there is no help. The cow probably will not give as much milk dur-It is perfectly possible, however, to ob- ing this period of lactation as she did tain a satisfactory churning at 60 degrees formerly, but next time she comes fresh, one day and experience trouble at the she will do better, because she will pracsame temperature the next. If the cream tically rest a little during this whole churning one day and warmed up from possible that there is something the mat-55 to 60 degrees the next, the former ter with the cow, but if my diagnosis of cream will churn in much less time than the case is right, this is simply the rethe latter, though both were placed in the sult of her working too long during the churn at the same temperature. The last period of lactation, without any rest

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There has been a great deal said and done on the subject of sowing fertilizers with wheat and other small grains. In most states it is acknowledged that it pays to use commercial fertilizers. Those who have had the greatest experience with these soil enrichers, agree that they are difficult to handle, being very easily affected by climatic conditions. That is, they gather moisture, and therefore, at times, become pasty and sticky. This causes corrosion, gumming and cementing of the fertilizer feeds. In order to overcome this difficulty the makers of the Buckeye Grain and Fertilizer Drill have adopted a glass cone feed which does not corrode. They have also lined the fertilizer hopper with galvanized iron and provided same with an agitator which swings slowly in the fertilizer hopper. keens the fertilizer from banking up and prevents lumps from causing trouble. The prongs on this agitator play over the hopper bottom and around the non-corrosive glass discs, thoroughly cleaning and scraping same. It makes no difference what kind the fertilizer is, the Buckeye is guaranteed to handle and sow it in great range of quantities. The Buckeye Grain Drill has many good points not to be found on other drills. The grain feed is of the internal type, with two throats or feeding channels, and change of quantity is obtained by changing the speed of the distributor wheel in the double feed This feed will sow all large seeds-Lima beans, red kidney beans, peas, beets, oats-as well as wheat and all other small grains. In other words, there is no seed too large and none too small for the positive force feed of a Buckeye Drill and the quantity is under absolute control of the user at all times. The frame is of square steel tubing and furnishes a most solid and substantial foundation for the drill. The manufacturers, The American Seeding-Machine Co., Incorporated, of Springfield, Ohio, will be pleased to send any of our readers a Buckeye catalogue. We would also recommend prospective purchasers to go to their local implement dealer and insist on seeing the Buckeye Drill, which is made in plain and fertilizer styles in single disc, double disc. hoe and shoe.

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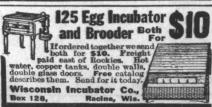
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THE INCUBATOR VS. THE HEN.

The modern incubator is recognized as an absolute necessity by the man who. in this latitude, would get chickens out of the shell before the first, or even the middle, of April. It is equally true that in these times of year-round demand for all kinds of poultry products it is essential that a considerable proportion of the can get, in your opinion? Would like a weekly, the best that I can get.

2. Do you know of any place I can get a treatise on frog culture? Does anyone in this state raise frogs for commercial purposes?

C. S. R. in this latitude, would get chickens out annual poultry crop be hatched before the latter date. Hence it is that the poultry journal that is published weekly incubator is coming into more general A good semi-monthly and a number of use year by year as its capabilities are being better understood and appreciated.

There is little doubt that the incubator industry up to its present enviable position. To the contrary, it has many times was in no way responsible. The dyedin-the-wool advocates of natural hatching tell us that it is possible to hatch chickens just as successfully with hens as with the best machine on the market, to The incubator manufacturer does not dispute this but a proposal from him to conduct a test of the two methods during the winter months would prove a little dis-concerting to the friends of the hen. The followers of the hen would then no doubt point to the undisputed fact that the percentage of strong, healthy chicks from early hatches is sometimes low. The trouble is they do not stop to consider the conditions under which the eggs that go into the incubators in January, February and March are produced. Practically all of them come from stock that is closely confined; some are from hens whose vitality has been impaired through heavy laying during the early winter, while some are from immature pullets. and all must admit that it is scarcely possible to have a high average of fertility or strong germinative power under such conditions.

It has become rather common to attribute weakness in chicks to the fact that they were hatched artificially. Some even go so far as to blame artificial incubation for the development of that mysterious ailment known as white diarrhoea, and predict that the continued use of incubators will finally work permanent injury to the vitality of our poultry stock. It is a fact that more weak chickens are hatched in incubators than under hens, for, as intimated in the preceding paragraph, the sitting hen does business only at that season of the year when the breeding stock is upon the range and fertility and germinative power are at the highest point. The remedy for weak chicks among early hatches lies in more rational handling of the breeding stock, not in discarding the incubator. The white diarrhoea "mystery," simmered down, appears to be largely a matter of cleanliness-or uncleanliness, rather. At any rate it is rather significant that some incubator users who formerly were troubled with this disease have been able to avoid it by thoroughly disinfecting the machines before each hatch. Also that in some instances the infection has been traced to the litter used in brooders, all of which would indicate that cleanliness is the greatest essential, no matter what system of incubation is used.

A. L. J. Saginaw Co.

When we examine some of the chicken houses in the country and see the filthy your old turkeys and use considerable nests the hens are expected to lay in we care in securing eggs from a flock that are not surprised to hear the owner com- has not suffered from blackhead. Hatch plain that his hens do not lay. Hens like the eggs in an incubator or under chickclean nests, and boxes or barrels contain- en hens. It is claimed that infection is ing a little filthy straw, or nests of their rarely carried by the egg, but as a preown making in the dirt and manure upon caution Dr. Curtice advises wiping the the floor, are enough to discourage a eggs, about three or four days before respectable hen for a whole season.

Barrels are all right for nests but they alcohol. For the first few weeks keep are better lying down than standing up- the young turkeys on a clean board floor right, for the hens are liable to break and out of contact with other fowls. the eggs when jumping into the upright Provide a hover or outdoor brooder at barrel. Boxes big enough for one hen night, with ample protection from wet at make nice nests, and old buckets and cans all times, as this system of brooding will may be used by putting stones in the insure freedom from lice. bottom to prevent upsetting. Keep plenty the season practice feeding in clean of straw in the nests and renew it fre- troughs rather than upon the ground. quently, burning the old. The boxes and A teaspoonful of dilute hydrochloric acid barrels can be scrubbed occasionally, and to each quart of drinking water is also the buckets and cans scalded to keep advised as an intestinal antiseptic where them clean and free from lice.

There are very few farmers who do not keep from 75 to 100 hens the year land turkey eggs we cannot do more than around, and yet many do not have enough advise you to watch our advertising coleggs for their own use a good part of the umns.

Of course, clean nests will not solve the whole problem of making hens lay, but it is one step in the right direction.

M. M. ICHLER.

IN ANSWER TO INQUIRIES.

Poultry Journals-Frog Culture.

So far as we know, there is no excellent monthly poultry journals are included in the clubbing list which has appeared in recent issues of this paper. By has not always been given the credit it sending for sample copies of the different deserves for having brought the poultry ones you should be able to determine which one will best meet your wants.

We have never heard of a book on been charged with results for which it the subject named, nor do we know of anyone who is producing frogs for commercial purposes.

Preventing Disease in Turkeys.

I would like some information in regard to the raising and feeding of turkeys. This was my first year in raising them and I lost a good many, both little and big. I examined one of the large ones that died and found the liver enlarged and covered with yellow spots. They seemed very free from lice while young. Did not feed them corn until they were pretty well grown. Also please tell me pretty well grown. Also please tell me where I can procure a sitting of White Holland turkey eggs this spring.

Wayne Co. Mrs. J. S. L.

From your description it is practically certain that your turkeys had the disease known as blackhead. This disease has, during the last few years, brought heavy losses to the big growers in the eastern states besides having become rather common throughout the middle It is called blackhead from the west. fact that the head of the fowl generally turns dark or purplish, although such is not always the case. It is caused by an animal parasite which is taken into the body in the food or water and becomes lodged in the mucous membrane of the caecum, or blind intestine. Inflammation sets in, ulcers are formed and the trouble spreads to the liver, resulting in the enlargement of that organ and the formation of the whitish or yellowish green spots which you found.

A careful study of this disease has been made at several of the state experiment stations, and Dr. Curtice, of the Rhode Island station, declares that the parasite which is responsible for the trouble exists rather commonly in other kinds of poultry but is not fatal to those fowls. believes that turkeys become infested with the parasites from running with other poultry and therefore advises keeping them away from other fowls, especially upon farms where the disease has made its appearance. This would seem to render turkey raising both difficult and inconvenient upon most farms, since it is impossible to grow turkeys successfully on very limited range. Likewise, it is hard to so confine the other poultry to a yard or orchard that the turkeys will not gain access to it.

Since the parasite enters the fowl's body through the mouth it is clear that the ground over which the turkeys range should be free from contamination. If any of the ground they are to occupy was used by last season's flock or by your other fowls it should be turned over with the plow or be well disinfected with a five per cent solution of carbolic acid. PROVIDE CLEAN NESTS FOR HENS. Disinfecting will, of course prove too expensive except for very limited areas. Then we suggest that you get rid of all completion of the hatch, with 90 per cent Throughout blackhead is feared.

As to where you may obtain White Hol-

The reason is simple. Filler is the main bulk and weight of all fertilizers. In other brands this filler is practically worthless. In Bashumus Fertilizers the filler is all Humus, which furnishes plant food, loosens the soil, and retains the moisture, thus neutralizing drought conditions. Don't buy waste—buy Humus. Ask your dealer for Bashumus Fertilizers. If he doesn't carry them, write us. We will send you free, a valuable booklet, "Richer Soil for Richer Profits," and will see that you are supplied with Bashumus Fertilizers. Write us a card now. is a card now BASH FERTILIZER CO. The Kind That **Brings Results**

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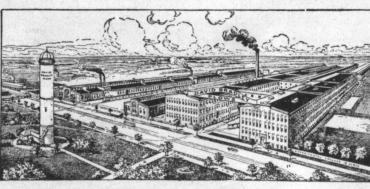
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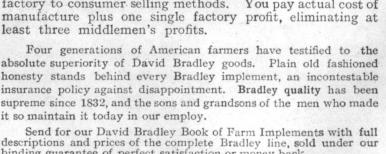


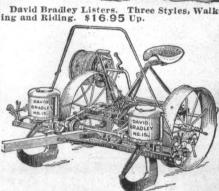
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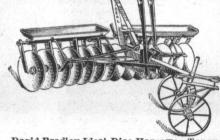




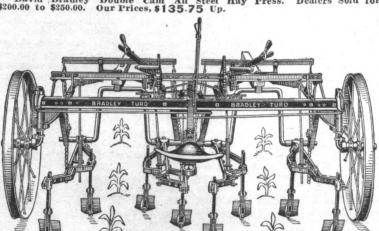
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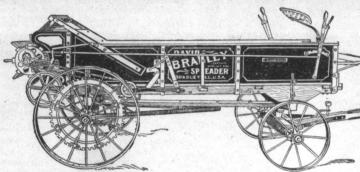




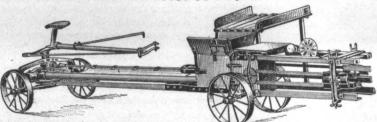
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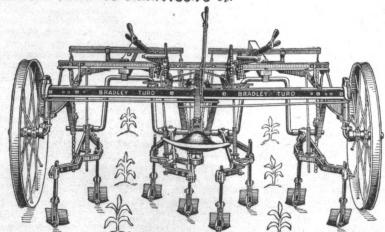
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DETROIT, JAN. 28, 1911.

CURRENT COMMENT.

The State Should Run be a good prosthat the the State Fair. pect legislapresent ture will take some action looking toward the state control of our state fair. There is at present a resolution pending in the farm management and its relation to the

state senate looking toward that end, and as preliminary to such action there is talk of a legislative inquiry into state fair matters.

That the farmers of the state would welcome a step of this kind is certain, since the placing, of the management of the fair in the hands of officials who are directly accountable to them would not only assure the upbuilding of Michigan's of special products are produced, and othstate fair along agricultural lines and ers upon smaller farms where only genput it on a basis comparable with eral agriculture, or some one specialty at the best agricultural and industrial most is engaged in. fairs of the country, but would as state, but which would appear to be as

favorable to the taking over of the fair his business. by the state and making it in fact, what But the first essential in every case is it now is only in name, a real state fair. the recognition of the need of improve-The rather general expression of such ment, and this is where the more progressentiment by men who are at present sive farm managers excel over their less connected with the management of the fortunate brothers. It is true that some state fair would seem to indicate that are better equipped by nature to become there will be little open opposition to the successful farm managers than others, proposition of the state taking over and yet good management is a faculty which assuming control of the state fair. But can be largely acquired by any man who the plan under which such control is ex- will study the problem persistently and ercised will, of course, be an important carefully, with due regard to the local factor in its success, and the working conditions with which he is surrounded out of its details will have much to do and his own limitations as to ability or with the future success of the state fair, temperament. When so considered the and its economic importance in giving problem of farm management becomes an adequate publicity on a competitive basis individual problem for each of us, and we to the agricultural and industrial re- should set about its solution on that basis. sources of Michigan.

The plan which has been suggested is has succeeded in one branch of agricul-

as a means of insuring the best results in our own state. Yet the plan which has been suggested has some well defined advantages. It will be objected to by some on the ground that it is a scheme to make the office of lieutenant governor a more desirable berth than it is at present. who is nominated as well as elected by the direct vote of the people, and it would seem to be certain that the farmers of CORN GROWERS' WEEK AT M. A. C. the state will take more interest in the nomination of candidates for this office if the successful candidate is to be the executive head of the state fair as well the state board of agriculture, whom it ment station staff. has previously been suggested should be placed in charge of the state fair so long place the electors of the state in a posi- and corn show in connection with the tion to get what they believe they are above course of instruction. The show entitled to in the way of a state fair. In other words, we believe that the formulation of the details of a plan may be safely left to the legislature to work out. But legislation providing for the state operation of the state fair will be more certain of enactment if those who are interested in the matter will make their interest known to their representatives and senators on the legislature. This is a mat-ter in which Michigan Farmer readers are interested, and regarding which their interest should be expressed in a personal letter to, or interview with, their representatives in the state legislative There seems to body at an early date.

As announced in our Farm Management prospectus for 1911, the discussion of the Problems. various phases

success of our business as farmers, has been given special prominence in the January issues of the Michigan Farmer. The men who have written upon the different phases of this problem are all men who have made a success of their own business in the various departments of agriculture in which they are engaged, some upon large farms where a variety

We believe that the reader who has well insure that it would be conducted in carefully read these various special articlean and wholesome manner, some- cles on farm management has derived thing which has been demanded in no some good ideas from them. But to be uncertain terms by the farmers of the made helpful in the best sense of the word those ideas must be acted upon. No far from practical realization as ever, one among the readers of the Michigan notwithstanding the pledges which have Farmer is so successful a manager that been publicly made by prominent men his methods and practices cannot be imidentified with its management, only to proved, notwithstanding the fact that a be disregarded when the show was staged list of our readers would include a large in the same old setting, either openly or majority of the most successful farmers in the state. The more successful a man It is a matter for congratulation that has been in his business, the more promany of the men who have been promi- gressive he will generally be found to be nently identified with the state fair dur- in the adoption of new and better mething the years of its more progressive de- ods and in the improvement of his equipvelopment are expressing themselves as ment for the most economic conduct of

Because some one of our acquaintance

to make the lieutenant-governor of the ture and some one else in another destate the official head of the state fair, partment of special production, it does and place upon his shoulders the responsibility for its proper and efficient manifestation. The seed several special production, it does the shoulders the responsibility for its proper and efficient manifestation. The seed several s agement. At first thought it would seem The good manager must lead, rather than to be a wiser plan to investigate the plan follow, utilizing the experience of others of organization by which other fairs which so far as it may properly apply to the are controlled by the states that have case in hand, but making it subordinate fairs of recognized merit are conducted, to personal initiative as required for the most successful solution of our individual problems of farm management. This discussion was scheduled for January because it is a month in which every farmer has the time for careful thought and study, and if both are applied to the problem by a fair proportion of Michigan But the lieutenant governor is an officer Farmer readers as a result of this discussion, its object will have been served.

The week's course in corn production Co. given at the Agricultural College last as the presiding officer of the senate. It large number of the regular short course make a good manager for the fair, he a program of three lectures each forewill be mindful of the interests of his practice work in the selection and judg-farmer constituents in discharging the ing of corn. Two lecturers from other constitutional duties of his office as at states assisted-Mr. C. G. Williams, of present designated. In fact, we believe the Ohio experiment station, and Mr. J. it to be of rather minor importance P. Prigg, of Indiana, the latter also conwhether the conduct of the fair be dele-gated to a single elective officer who is ed the exhibits. The remainder of the thus directly responsible to the people of lecture work was performed by members the state, or to an elective board such as of the college faculty and of the experi-

The Annual Corn Show.

The Michigan Corn Improvement Asas a workable plan is devised which will sociation held its seventh annual meeting



National.

With no details made public, it is reported that the representatives of the American and Canadian governments closeted at Washington have agreed upon a convention between the two countries for reciprocal trade relations. The proposed treaty will be submitted to Secretary Knox and British Ambassador Bryce for their signatures after which it will go to congress and the Canadian parliament for sanction.

A suit is about to be filed in the Michigan supreme court to determine whether the general primary law or the former law will control in the spring election in Wayne county. The new law does not provide for all officers of the country, and this incompleteness is believed to be sufficient ground for retaining the old law until the former is amended.

At a meeting of the circlors of the Michigan Agricultural Society it was shown that at the last state fair the so-city made over and about expenses, about \$19,000. This is the best showing from a financial point of view the society has made since the fair was moved to Detroit. Several changes have been made in the committees and management for the coming season.

New Mexico electors have adopted the constitution submitted to them by a constitutional convention at an election held awarded to Miss Florine Folks, of Jackson Co., who showed a very fine sample of white cap dent. Miss Folks participated in the boys' and girls' corn growing contest conducted in Jackson Co. last season and captured the sweepstakes premium in the county show. In the opento-all class, however, her exhibit was forced to take second place, first going to her father, Wm. Folks, who showed a superior sample of the same variety.

In District 2, comprising the remainder of the lower peninsula, the following were winners in the various classes:

Class A—Yellow Dent.—1. Guy Hayward, Bay Co. 2. E. O. Ladd, Grand Traverse Co. 3. Herman Kolk, Neway-go Co. 4. Peter Wermuth, Gratiot Co. Traverse Co. 3. Herman Kolk, Newaygo Co. 4. Peter Wermuth, Gratiot Co.
5. Ted Atchison, Newaygo Co. 6.
Harry J. Hatfield, Mecosta Co. 7.
Henry Hayward, Bay Co. 8. Albert
Johnson, Muskegon Co. 9. Frèd Wermuth, Gratiot Co. 10. Ivan Olson, Muskegon Co.
Class B—White Dent,—1. Lester L.

Be Benston, Muskegon Co. Class C—White Cap Dent.—1. Hugh Watson Isabella Co. 2. Roy Rossman, Montcalm Co. 3. Sylvester W. Helferich,

Huron Co.
Class E—Flints.—1. A. R. Vincent, Sanilac Co. 2. Raymond Youmans, Saginaw

The annual business meeting of the week was rather lightly attended, but a Michigan Corn Improvement Association was held on Wednesday evening. A comwill quite naturally follow that if the students were given the opportunity to mittee was appointed to consider the adselection made is a representative man benefit from the lectures as well as the visability of holding the next annual of sufficient attainments and capacity to practice work. The course consisted of meeting and show at some point other than the Agricultural College. At a later will as well be a representative man who noon, the afternoons being devoted to session this committee reported in favor of taking the show to the city offering the best accommodations, and this recommendation received the approval of the Association. A resolution designed to "graduate" winners of first prizes was presented and adopted, the resolution providing that the winning of three first premiums or of one sweepstakes premium (other than sweepstakes trophies), shall bar an exhibitor from competing prizes other than trophies, ribbons or certificates of merit. Officers for the ensuing year were elected as follows: President, Chas. H. Sudborough, Adrian; vice-president, R. I. Vandercook, Linden: secretary-treasurer, L. J. Bradley, Augusta; directors, W. F. Raven, East Lansing, L. L. Lawrence, Decatur, and J. S. Walker, Muskegon. Prof. V. M. Shoesmith was elected state vice-president of the National Corn Association.

HAPPENINGS OF THE WEEK. National.

her father, Wm. Folks, who showed a superior sample of the same variety. This latter sample was given the sweepstakes award for best ten ears in the show, and it also contained what was declared to be the best single ear in the entire show thereby winning the silver cup offered by the Michigan Farmer.

In District 1, comprising the lower four iters of counties, the premiums offered in the various classes were awarded to the following exhibitors:

Class A—Yellow Dent.—1. Levi J. Miller, Kent Co. 2. L. J. Bradley, Kalamazoo Co. 3. Edw. J. Miller, Kent Co. 4. A. Wood & Sons, Washtenaw Co. 7. J. J. Nyenhuis, G. Pickett, Kent Co. 6. A. A. Wood & Sons, Washtenaw Co. 7. J. J. Nyenhuis, G. Class B—White Dent.—1. Artie Austin, Livingston Co. 2. R. I. Vandercook, Livingston Co. 3. Allen B. Simmons, Jackson Co. 4. Artie Jewett Ingham Co. 5. R. D. Simmons, Jackson Co. 5. R. D. Simmons, Jackson Co. 4. L. S. Turner, Jackson Co. 5. M. Moore, Oakland Co. 6. Lloyd Hunsberger, Kent Co. 7. Oscar E. Page, Barry Co. 8. L. E. Woodin, Jackson Co. 9. Edwin Santee, Eaton Co. 10. Albert Nesman, Eaton Co.

have held out stubbornly but it is expected that at any moment the rebels will take the place. While the outbreak will give the Mexican government a great deal of trouble it is generally beheved that the federal authorities will soon put down the disturbance. However, larger forces are being moved into the northern states and it appears that President Diaz and his advisers are aware that the distayor to those in authority will not be

states and it appears that President Diaz and his advisers are aware that the disfavor to those in authority will not be readily overcome.

Peruvian forces have been sent against rebels intrenched on the heights of Tayabamba, 200 miles north of Lima.

A request has come from Hankow, China, for a gunboat to protect American interests should rioting there continue.

China is soliciting the co-operation of scientists from all quarters of the world to study the pneumonic plague and means of its extermination in districts now affected.

The largest non-rigid dirigible balloon ever constructed made its initial trip at Berlin, Germany, Monday, and the test was entirely successful.

The new English battleship Neptune, which was recently launched, promises to introduce an entirely new battleship architecture whereby the efficiency of the guns on the ship may be doubled. The guns may be trained upon either beam and when desired one can be fired over another. The monster ship is being constructed under the greatest secrecy.

An investigation is being made into the rumor that Americans have succeeded in getting plans of the fortifications on top of the heights of Beaumont near the city of Quebec. So quietly had the work of fortifying these heights been conducted that few Canadians were aware of the work. The plans were furnished by the British government.

German and British sailors were landed at Hankow, China, to quiet a mob. The rioting started when a British police-

ed at Hankow, China, to quiet a mob. The rioting started when a British policeman was suspected of having killed a coolie. Native troops are being sent to quiet the disturbance.

coolie. Native troops are being sent to quiet the disturbance.

The great oil fire in the oil field at Potrero del Llano, Mexico, has finally been extinguished after having burned fully 500,000 barrels of oil.

The situation of the insurrection in Honduras was interrupted by the action of the United States in sending the battleship Tacoma to take charge of the gunboat Hornet. The movement was a great blow to the aspirations of the revolutionists, and may mean their defeat. The rebels have, however, made headway and now threaten the town of Ceida, which but for a misunderstanding would have been taken several days ago. Bonilli, the leader of the insurrection, is now practically a prisoner of the American naval officers. It is generally believed that the insurrection has been instigated by strong financial interests in New York and Washington, and it is upon this ground that the government is anxious to do what they can to prevent American interests disturbing the peace of the central American republics.

CROP AND MARKET NOTES.

Gratiot Co., Jan. 17.—Sleighs have been run in Gratiot county since Dec. 4. though sleighing has been good only by spells since Dec. 26. The fields have been covered since the first snow fell and the ground is not deeply frozen. Since Jan. 10 the fields are crusted and the roads are ice beds. The weather has reached some low temperatures but has been given to frequent changes. Little change in farm produce since last month.

Ottawa Co., Jan. 20.—For a number of days the roads and paths or walks everywhere, have been so icy that traveling with team or on foot has been difficult, and at this writing rain is falling which freezes, making it more difficult than ever to travel. A number of accidents have happened to pedestrians and teams. The farmers in this section have drawn more gravel this winter than ever before. It will be used in the spring for cement work, such as stable and barn floors, walls under buildings, walks around dwellings, and new silos. As dairying is one of the principal industries of this section, the sudden drop in the price of butter will make a big cut in profits, because feed remains correspondingly high. The county round-up farmers' institute will be held at Coopersville, Jan. 31 and Feb. 1.

Sanilac Co., Jan. 14.—So far January has been a typical winter month, with

Feb. 1.

Sanilac Co., Jan. 14.—So far January has been a typical winter month, with plenty of snow, frosty nights and about every third day comes an old-time blizzard. The meadows and wheat are pretry well covered with snow. Stock is wintering well and milch cows are very high in prices. The cheapest products the farmer has to sell are potatoes and oats at 25c and 30c respectively. Sugar beet growers are demanding more money for their beets, which seems a reasonable proposition. Farmers are doing chores and visting. Markets as follows: Wheat, 87c; barley, \$1.25 per cwt; beans, \$1.85; hay, \$13 per ton; butter, dairy, 20c; hay, \$13 per ton; butter, dairy, creamery, 27c.

hay, \$13 per ton; butter, dalry, 20c; creamery, 27c.

Ohio.

Montgomery Co., Jan. 16.—The ground has been covered with snow nearly all winter. The snow melted off last week. The wheat came out from under the snow looking fine. Tobacco stripping in full blast. No sales made as yet. All stock wintering well. Markets as follows: Cattle, 4@5c; hogs, 7½c; eggs, 32c; butter, 30c; corn, 40c; potatoes, 60c.

Hardin Co., Jan. 11.—We are having nice winter weather. Plenty of wind and not much snow, but a little on the ground most of the time has afforded good protection for the grain and grass. Lots of corn out yet. Hogs have advanced to the 8c mark again. Fat cattle not so active. Butter, 26c; eggs, 33c; clover hay, \$8 per ton; timothy, \$12; oats, 31c per bu; corn, 45c per bu; good cows, \$60 @75.



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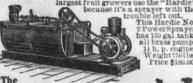
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GANIZED COMMUNITY.

These columns are in closest sympathy with that scheme of organizing communities for the disposal of special farm products; and the more experience accumulated along this line and the deeper the rlan is studied the more we are convinced of the utility and economy of such organization. The opportunities for getting the public to know, use and buy more of the products of the organized community, seem to be unlimited. A certain western organization of growers is sending exhibits about the east showing the urban population the grade of apples the organization handles. Only the other day there came into the hands of the writer an announcement of prizes offered by another concern of like character, for a certain number of wrappers from fruit purchased from this concern. Many other schemes are being worked but the above are suggestive of some of the possibilities of an organization of this character. These activities are collateral to the main purpose of the concerns conducting them, their larger and chief work being to first see that the fruit is properly put up and then to see that it gets where it is wanted most. This was their primary purpose for being. But after the machinery was once put in motion, it was easily seen that other ends could be readily gained, and so they use the same organization to tell the country what they are growing, urge individuals to try, and to buy, and then make further inducement for them to keep on buying, Large industrial concerns have been developed through activity along similar lines. The success of a few organizations of this nature among fruit men, as well as among other agricultural workers, will not only make it desirable for further organization, but will ultimately make it necessary that other communities follow if they will get a market for their products. It is peculiar, but nevertheless true, that we have to be pushed into some of the things most helpful and desirable. It may be so organization for distribution among producers of agricultural products.

WITH WHAT SHALL WE SPRAY?

What shall we spray with the coming season? After the years in which spraying has been done it would seem that the spraying calendar and formulas should be well established, but such is not the case, and this question is being frequently asked. Apples were quite badly russeted the past season and there is a quite general impression that this was due to the use of Bordeaux mixture. The thought is, therefore, that by substituting dilute lime-sulphur as a summer spray this difficulty may be avoided. In fact, in all seasons there is more or less of what is known as Bordeaux injury of the fruit. Some have tested the two sprays side by side and find much less russeting where the sulphur compound is used. The writer used both last season and could detect not the slightest difference in the russeting. There is reason to believe that much of the injury last season was caused by the unusual cold and freezing just about blossoming time. But there is no question that less injury results where the lime-sulphur is used than is the case with Bordeaux. A question is, will it be as effective in controlling the apple scab, and another is the comparative expense. Some experiments in former years seem to indicate that the sulphur is not so reliable in holding the

determine. of 1 to 40 for the summer spray and the dilute mixture and the cost will be half a cent per gallon. If the dilution is car-

of sulphur, 60 pounds of lime to 50 gallons of water, if the sulphur is bought at \$2 per 100 pounds the expense will be \$2.50 for sulphur, about 35 cents for the lime and the expense of boiling, or say, \$32.25 ANOTHER POSSIBILITY OF THE OR. for the 50 gallons of concentrated mixture. Diluted 1 to 40 and the cost of this spray is about one-sixth of a cent per gallon. In preparing Bordeaux we use 12 pounds of copper sulphate, 18 to 20 of lime to 200 gallons of water. If the vitriol costs five cents per pound the expense of this mixture is 60 cents for the vitriol, 10 to 12 cents for the lime, or a little over 70 cents for 200 gallons of spray mixture. This is about one-third of a cent per gallon, or twice the cost of the home-made lime-sulphur, but below that of the commercial lime-sulphur.

There are other factors entering into this computation, however. There is always considerable time consumed in dissolving the vitriol and slaking the lime and in properly combining the two, while with the prepared lime-sulphur it is only necessary to add the required amount of the concentrated solution to the tank of water and the spray is ready after adding the arsenate. The Bordeaux is harder on the pump, too, as the grit in the lime cuts the pump cylinder and the plunger packing, while the clear limesulphur does not so rapidly wear out the pump and so avoids much of the pump difficulties. On the other hand, a cheaper arsenate can be used with the Bordeaux and a saving be effected in this way For the earlier sprays we use arsenate of soda, which is the cheapest and most convenient form of arsenate that we can We run a steam pipe into a barrel and put in 15 to 20 pounds of white arsenate with two pounds of sal soda and two gallons of water for each pound of arsenic. The cooking boiler is steamed up and this mixture is boiled 15 to 20 minutes when the arsenic is dissolved and in liquid form. It is only necessary to dip the desired amount of this liquid into the spraying tank and it stands in suspension and is both convenient and reliable. Two gallons of this liquid is equal in strength and insecticidal value to two pounds of Paris green, costing 40 cents, or 10 pounds of arsenate of lead, costing 80 cents. The cost of the two gallons of arsenate of soda, boiling included, is not over 15 cents. It is understood that only the arsenate of lead can safely be used with the lime-sulphur, hence this expense is considerably increased. It is some trouble to reduce the arsenate of lead as well. The arsenate of lead is regarded as more desirable because of its better sticking qualities and because there is less danger of burning the foliage with it. We find, however, that as much as one pound of arsenic can be used in 200 gallons of Bordeaux without injuring the foliage, and where the spray is applied as often as once in two weeks, as is the case early in the season, and oftener in case of rain, the washing off is not so serious. Later we like to use the lead. A pound of arsenic in 200 gallons of spray makes an unusually strong arsenical mixture.

I am frequently asked if I am going to continue to cook my own lime-sulphur or the commercial article. If I only used a small quantity I should not bother to cook it, but with the amount that we use the difference in expense is such that I can well afford to do my own cooking. If I had no facilities I should buy a good jacketed kettle to do the boiling in. By using the formula given above, if desired, a clear concentrated solution can be prepared and stored in advance of the busy season ready for use when wanted, provided it is kept in tight barrels.

Doubtless we shall continue to hear the objections of the dealers in the com-mercial article that the home-boiled is scab in check as the Bordeaux, and the uncertain in strength and unreliable, scab is a more serious injury than the that no two batches of it will test alike, russeting. Last season apples that were that the lime used is not pure, and sevtreated with either spray were quite free eral other things, which are more or less from scab and it is probable that the plausible, and more or less true. I don't question of comparative efficiency in this suppose that I have ever had any pure particular will require further tests to lime to make lime-sulphur with. Some that I have used I am now satisfied did The difference in the expense of the two not contain 60 per cent of pure lime. mixtures will depend somewhat on the And probably I never have made two cost of the materials, but it may be ap- batches that would show similar hydro-proximated in this way. If the commer- metric tests. Some that I have made I cial lime-sulphur is used and is bought have tested and know they were unequal at a cost of \$10 per barrel of 50 gallons in strength. But there is one thing that and diluted according to the usual formula can be said of this spray, and that is, it has done the business. I have not used 50 gallons will make 2,000 gallons of the it sufficiently in summer to be able to speak very definitely, though what I have used has shown up equally with Borried to 1 to 50 the barrel will make 2,500 deaux. But after several years' experigallons and the spray will cost two-fifths ence with the home-boiled mixture for of a cent per gallon. In case the home- San Jose scale I am very much gratified made concentrated lime-sulphur is used with our success in controlling this inand made after the formula of 125 pounds sect. We find just enough scale in dif-



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ferent places scattered around through the orchards to let us know that it is with us and must be combated, but not enough to cause any appreciable loss whatever. Any that may remain I am satisfied owe their lives more to a lack of thoroughness in spraying than to any lack of efficiency in the material used. So long as we meet with such gratifying results I shall not be greatly moved with the objections of the commercial limesulphur dispensers.

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GROWING HUBBARD SQUASHES FOR MARKET.

Will you kindly give explicit directions for growing Hubbard squashes for market? The soil is light sand, much run. Am thinking of planting the ground to corn and growing the squashes same as we grow pumpkins among it. Have some fresh horse manure and am saving the

Van Buren Co. Mrs. J. J. G. On that kind of soil you will require all the moisture possible, so let the cultural operation be with that express object in view. Just as early as possible, haul the manure and spread evenly but just as thickly as your quantity will admit. As soon as the frost is out plow it under just as shallow as possible and still cover the manure, and harrow it over thoroughly. At least once a week, but especially after every shower, go over the ground with a fine-tooth harrow and continue until planting time. As to the proper time to plant, weather conditions will largely determine that, as the plants are tender and easily get a setback by cold and wet; but ordinarily from May 15 to 30 will be safe. In general, if not planted until about June 15 they will usually escape danger from the black squash borer or stink bug, but as they will require an average of 125 days in which to mature they are liable to get caught by early autumn frosts, and this last state is worse than the first So, in growing large quantities it is safer to plant earlier and fight the bugs. Whenever planting times comes, re-

plow the ground and this time about six inches or more in depth. After harrowing run the plow lightly seven to eight feet apart both ways and make the hills at the intersection of the furrows. The hen manure will come in play now and had better be thoroughly mixed with well rotted stable manure or road dust so that too much will not be applied as it is liable to burn the plants. Work a quantity of this mixture into each hill and plant the seeds not more than an inch in depth. Plant six to ten seeds to the hill to make sure that you get a good stand, for the surplus can be easily pulled up. Give light and frequent cultivation just as long as the vines will admit.

The striped cucumber beetles will doubtless be the first enemies on the ground and ordinarily they can be held in check by dusting the vines with air-slaked lime and road dust in equal parts when the dew is on. When the plants are well established and begin to crowd, thin to three plants to the hill. The stink-bugs will doubtless be your worst enemy, but they will probably not come until the vines begin to run. Usually they will be found on the under side of the vine and near the hill. They are easily caught and destroyed, and may also be trapped by laying shingles or pieces of board near the hill. They will crawl under these at night and can thus be caught early in the morning. They deposit their eggs on the under side of the leaves and these can be scraped off and destroyed. The vines will require close watching for often much damage is done in a short If they become too troublesome, time. though, spraying with kerosene emul-sion will clean them out. Now with these safeguards you will be able to keep them in check, but close watching will be nec-

If the ground is planted to corn the above directions will hold good, but the worn, light, sandy soil will hardly stand the strain of both crops, and either one or both will be liable to suffer. My preference would be potatoes instead of corn, but if desirable to plant two crops on the same ground try planting a part with corn and a part with potatoes and prove which is the better.

J. E. MORSE. Wayne Co.

While the English markets are conservative about retaining the barrel as a package for handling apples, a number of wholesalers state that the box is being used more there and it appears to be finding favor with a large number of dealers. Fancy fruits had better be sent in boxes to most foreign points.

THE MICHIGAN FARMER.

Are you thinking of buying some fertilizers to use on your Spring crops? This matter is worth considerable thought. Write us for our booklet and find out how to fertilize properly and economically. We furnish quick acting high grade Fertilizers of many different compositions to meet the requirements of all crops grown on various kinds of soils. We make grades of

fertilizers

where either the Nitrogen, Phosphoric Acid or Potash are component parts, with the right percentages of the other elements of plant food to properly balance the Fertilizer to use on muck land, clay, light soils, etc.

If your land is rich in Nitrogen you will save money by using Phosphoric Acid and Potash to balance out the plant food in the soil. Progressive farmers who study out these things are more successful than those who have not realized the great difference in Fertilizers. Even at the same price, one grade of Fertilizer under certain conditions will produce more profitable results than another.

In selecting Fertilizer the farmer cannot be any too careful. He should make sure that the goods are manufactured by a reliable firm, so that he may depend upon getting full percentages of plant food and of the highest agricultural value, also in first-class mechanical condition. The reputation of the manufacturer is very important.

We guarantee that our Fertilizers conform in every respect to all the requirements of strictly high-grade goods. They have been sold continously for the last fifty years and have established a record of popularity unequalled by any other Fertilizers on the market.

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Better Disking at Half the Cost

We know that the new Imperial double disc, flexible frame, scalloped blade Harrow will save you money and time, and give you a better seed bed than any We know this through recorded tests, and from the experience other implement. of thousands of farmers throughout the country. We want you to know it, too, from an actual test of an Imperial, conducted by yourself on your own farm.

Double Disc Imperial Flexible Frame Harrows

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The Imperial Harrow works the ground twice for its full width of cut with no feut on in the same

time it takes the old style harrow to do it once. Four horses hitched to an Imperial will do twice as much work as three horses with an ordinary harrow.

The specially designed, scalloped blade cuts to greater depth and more perfectly pulverizes the soil. The flexible frame lightens the draft and leaves a perfectly level seed bed.

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told over II,000 bushels of it last year, and we ex-double it this year. Your money back if corn is istactory. I0 days to test It. Can send either dor in the ear. Also choice lot of seed oats, barley, timothy and potatoes. We cannot tell you more it here, but our catalog is free. Send for it to-day. W. N. SCARFF, New Carlisle, Ohio

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S. M. ISBELL & CO., SEEDSMEN Box 200

A RACE AND A RESCUE.

BY FRANK H. SWEET.

Allan was skimming along at a twentymile rate, his sail half reefed on account of the strong wind, and his tiller shifting from side to side to follow the windings of the shore. He had the whole afternoon before him and was in no hurry, and he preferred the variety of the shore to a bee-line down the river.

As he swept around a point of land he and on he flew, with the swiftness of a coming to a full stop. One by one the saw several boats coming up the river to- homing bird, so holding his boat that the other yachts followed his example, their ward him, evidently testing each other's light steel runners found the least posspeed. They were scarcely a mile away, sible friction from the ice. Little by lit- with congratulations. Presently a yacht and while he was speculating on the tle skill began to tell against chance, swung in beside them and a man sprang number of seconds it would take them to Even in their diverging courses he could to the ice. arrive opposite, he heard a sudden shout see that the distance was lessening yard and saw the boats near him swerve has- by yard, and rod by rod. At times, when tily in toward shore. He glanced round she struck a bit of rough ice or line of quickly to discover what had occasioned snow, the runaway quivered and the tautthe alarm, but could see nothing but a ness of her sail relaxed; such places, if finely modeled boat rushing toward him wide, he met with a skill that scarcely under a full stretch of canvas. He ad- lost him speed. Once he saw a narrow mired her proportions even while he con-fissure of open water in front of his idly as I could on another. I am sure demned the risk of carrying so much yacht, but not extending to the course of I appreciate your—" sail, but was turning away when some- the runaway. thing in her erratic course made him meant losing the race, losing her whose and stepped from the boat. Only the day look more closely. threw his whole weight against the tiller his; so he kept on, and at the every edge him to the girl which he could not forget swerving his boat so that it sped away at of the fissure swung the tiller so that the —did not care to forget. almost right angles to its former course, yacht rose in a leap which carried her to

He was not a moment too soon, the other side. It was taking chances, Scarcely had he turned when he felt the but it meant her life, and his very Scarcely had he turned when he left the wind of the great yacht as it rushed by, promptness and the velocity of the boat that was slightly tremulous, almost grazing his stern. It was a run- made it successful. almost grazing his stern. It was a run- made it successful. away, tearing on to its own destruction away, tearing on to its own destruction of any vantage desired and now turned his boat held out his hand. more, threatening the destruction of any craft that might be unable to avoid its Involuntarily he uttered a low exclamation of relief, checked almost instantly, however, and changed to one of dismay, for in the box of the yacht as it rushed by he saw a white, frightened face that brought him to his feet and then sent the blood surging tumultuously through his veins. Doubtless the helmsman had been thrown out or in some way left behind, and now the girl was the mercy of the mad thing that was tearing on.

There are some natures which act plemented King, drily. quickly, and Allan's was one of these. Malley's dim eyes kindled. "Well then, smart driving horse around to the office Even as the frightened eyes looked into if that is the right definition, I am a poor door and gently helped the broken-down his he began to lash the tiller in place. surface was spread to the wind, doing just what he had condemned a few seconds before.

The sail secured, he unlashed the tiller and seated himself with his feet firmly deavors and you know it, so I say you are as he looked at his watch. He touched braced. It would be a hard chase, he an inherited pauper if I am an unfortuthe horse with the whip. "I shall have knew and very likely a futile one. The nate one. And in the sight of God it is to leave you there for today, anyway, as wide, and the runaway was headed est dollar for yourself." wide, and the runaway was needed straight down, and apparently her tiller was lashed. Except for possible collisions the way you talk to your children I don't have to pull in their horns. Don't give she might run thirty or forty miles with- wonder they kicked you out. We can't up, Mr. Malley; you will find that you she might run thirty or forty miles with- wonder they kicked you out. It is Colhave friends in this town who will not let out touching either shore. Could he hope waste any more time with you. It is Colhave friends in this town who will not let

at tremendous speed, every inch of her killed." canvas reaching for its share of the wind, and the mast and timbers bending under could speak King turned towards him. with a ring of pride in his voice. "He is the strain. Allan was leaning forward, "Get the buggy, Ned, and take this old not the politician that goes to the highest grasping the tiller with tense hand, his fellow around to Collins'es. I'll telephone bidder but the kind that goes for the eyes watching keenly for anything which that you are coming and I'll see to the might help him gain a rod, a yard, or dog." even an inch. An express train, speed- Malley staggered to his feet, clutching would, and I am going to see them both ing along the shore at forty miles an hour, at his heavy stick for support. There for you. I shall pull in there for dinner. was opposite them for a time, then slowly

a manner that the yach arose and cleared angrily. the snow with scarcely any check of her

speed. The swerving of the runaway from her now, but Collins will attend to him when course gave him, too, another advantage, the time comes." although it meant that it was necessary

to overtake her quickly. As now headed, in toward the runaway, drawing nearer she would strike the opposite shore near and nearer, and yet nearer, until they what was known as "ledge point." six were rushing along side by side. Then

or seven miles down, and her present he lashed them together and sprang across speed would take here there in twelve or to the larger yacht, where he grasped fifteen minutes at the outside. But Al- the tiller and forced it sharply into the lan's keen eyes convinced him that in wind. crossing the ridge her tiller had somehow

It was done just in time, for the ledge become changed, for instead of a straight point was less than a mile away. As course her direction was now slightly the lost headway and then swung around curved. By heading directly for some and curved gracefully back up the river point near the outer end of the probable he could count the icicles hanging from curve, he believed that he could inter- the frowning brows of the rocks.

Other yachts which had followed the wild race were now approaching. Allan to make sure of her direction, then swung ran off before the wind for a few lengths his tiller a little into the wind. Then on to slacken speed, and then luffed sharply, owners crowding about him and the girl

"Is she safe?" he gasped.

"Yes," Allan answered coldly.
"Thank God!" fervently. "I never expected to see her alive again. You see, I was all ready to start and stepped from my yacht for a moment after something, and she slipped away. I followed as rap-

But Allan nodded a curt interruption Then, suddenly he soul had for one brief instant looked into before this man had said things about

As his feet touched the ice he felt a

soft hand upon his shoulder.
"Mr. Wimsey," the girl said, in a voice "will you

Allan turned quickly and again they

THE GATES OF BAKAPPLEIN By { ELIZABETH JEWETT BROWN and SUSAN JEWETT HOWE.

Chapter VII .- (Continued).

After that there was little but watch-

cept her before she struck. But he kept

on his course for another thirty seconds,

To avoid it would have

who is dependent upon the town or some man and the trembling dog, "you had other person for support."

hody else gives him for his support," sup- have fair play."
plemented King, drily. He brought the concord

pauper and you are a rich one, for I have old man in and tucked Rover under the Then he unreefed the sail until its entire nothing but what has been given me or seat. Laughing as if they had perpetrat-surface was spread to the wind, doing will be given me, and you," he turned to ed a good joke, King and Chase watched Chase, herited from your father. You have nev- rose in anger. er added a dollar to it by your own en- if I can prevent it," he said determinedly runaway was much the faster yacht, and, more honorable to become a pauper it is King's orders and I will be fired if I except for ice craft, the course was open. through misfortune than to live by the don't; but if I drive hard I can see Searls At this point the river was two miles labor of another and never earn an hon- Jackson about you this noon. I will tell

out touching either shore. Could he hope waste any more time with you. It is Collador in that time? It would lins'es for you, and I guess you can stand you stay at that place and rot," he said to overtake her in that time? It would lins'es for you, and I guess you can stand you stay at that place and rot," he said to overtake her in that time? It would lins'es for you, and I guess you can stand you stay at that place and rot," he said to overtake her in that time? It would lins'es for you, and I guess you can stand you stay at that place and rot," he said to overtake her in that time? It would lins'es for you, and I guess you can stand you stay at that place and rot," he said to overtake her in that time? It would lins'es for you, and I guess you can stand you stay at that place and rot," he said to overtake her in that time? It would lins'es for you, and I guess you can stand you stay at that place and rot," he said to overtake her in that time? It would lins'es for you, and I guess you can stand you stay at that place and rot," he said to overtake her in that time? It would lins'es for you, and I guess you can stand you stay at that place and rot," he said to overtake her in that time? It would lins'es for you, and I guess you can stand you stay at that place and rot," he said to overtake her in that time? It would lins'es for you, and I guess you can stand you stay at that place and rot," he said to overtake her in that time? It would lins'es for you, and I guess you can stand you stay at that place and rot," he said to overtake her in that time? It would lins'es for you, and I guess you can stand you stay at that place and rot," he said to overtake her in that time? It would lins'es for you, and I guess you can stand you stay at that place and rot, "I would lins'es for you, and I guess you can stand you stay at that place and rot," he said to overtake her in the line is the place and you can stand you stay at the line is the man, his ability to take advantage of a spell anyway. That will be your look ing away the big tears that coursed down any possible flaw in the wind or defect in out, not ours. The girl will go to the his thin withered cheeks.

Home, of course; nobody wants such a The old man raised his head and spoke Home, of course; nobody wants such a But the wind was too steady for much freak as she around; but what are we sadly. "It is no use, boy; I thank you display of skill, and the course too going to do with the dog?" he asked of for your sympathy, but Searls Jackson straight. At the end of five minutes the King. "This town ain't going to feed no is a politician and he can't afford to heed runaway had gained half a mile. But dogs and pay their taxes, too. It is noth- an old man's necessities. If he did, he now the pursuing yacht was also going ing but a worthless cur and ought to be might lose the next election, and that is

Ned hurried to the door, but before he

was certain dignity in his pathetic figure I often do and I would today, if I knew as he spoke firmly. "I will not go to that King would fire me for doing so. Another five minutes and the watchful Collins'es, and you shall not take my little eyes saw the runaway quiver and swerve dog from me." He bent and stroked the from her course, and her sail flap loosely trembling little fellow who whined pite for a moment and then regain its taut- ously and licked his hand. "I have his ness. It was passing over a rough place, tax here." He held out the money, where a line of snow had been blown out "That young man there gave it to me from shore by some sharp flurry of wind this morning, and I will eat just so much and become frozen to the surface. But less if I can keep my dog. No, you shall the delay brought Allan up to within one- not touch him," he said warningly as fourth of a mile, for when he reached King advanced towards them. "You shall the line of frozen snow he threw his not do it," he warned, raising his stick, weight suddenly upon the tiller in such but King retreated as the dog growled

as long as he lives, Mr. King," said Ned, "A porper?" said the other deliberately, quietly, "and I want it so understood. Why, er-er-I suppose a porper is one "Come," he turned to the shaking old better go with me, Mr. Malley. Rover "One who has nothing but what some- shall go, too, and I will see that you both

buggy "have nothing but what you in- them as they drove away and Ned's blood "You shan't stay there him about this wretched business and, if

a risk he does not dare to run.

"You don't know Searls," cried Ned, highest principle. Even if he did not look into this matter, why, Cousin Nell And what is more, I shall tell that son of MEAD CYCLE CO., Dept. R. 77, Chicago, Ill. yours what I think of him. I used to be his friend, but I have no use for a young fellow who will treat his old father worse than a dog."

"Don't be too hard on him, Ned," aid the old-man, pleadingly. "He is said the old-man, pleadingly. young yet, and young folks never think that sickness or old age will ever come to them; but they will, they will; it's nature."

He reached Collins'es just at dinner time. A hard-faced, slatternly man came King laughed a hollow, mirthless laugh, out to meet them with the brief an-"Keep your dog if you want to keep him nouncement that dinner was ready. Ned waited long enough to see the old man follow the dirty, pitiable old creatures in-"I stand ready to pay the dog's board to the kitchen where the food, coarse and

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"I have been a constant user of Grape-Nuts for nearly three years," says a correspondent, "and I am happy to say that I am well pleased with the result of the experiment, for such it has been.

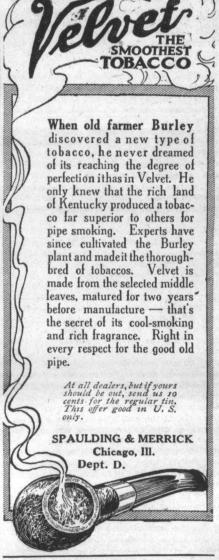
"Seeing your advertisement in almost all of the periodicals, for a long time I looked upon it as a hoax. But after years of suffering with gaseous and bitter eructations from my stomach, together with more or less loss of appetite and flesh, I concluded to try Grape-Nuts food for a little time and note the result.

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





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ill-cooked, had literally been thrown upon a disagreeable, stubbern boy in school. a long table covered with a greasy old wretched men and an idiotic old woman law that can make me take care of the were grouped, helping themselves to the old man, and I ain't goin' to do it, food and bolting it more like animals than neither." human beings. Three of them showed the effect of strong drink; the others take care of our parents," she answered, were idiotic, one man being afflicted with sternly. "It is the Law of God." a nervous disease which kept him in constant motion. It was into such company that honest, God-fearing old Henry Mal- the Bible says that parents should proley had been sent by his native town.

Ned was sick at heart as he drove away. He knew that Nell would do something to help the old man and, if there was no other way. Ned promised himself that he would help him. All the better part of his nature was stirred and he sixty years, with all the money he has longed for the chance to prove to the world that he, at least, would be a friend to look after him." to the helpless and old.

Chapter VIII .- The Law of God.

Ned found Nell alone, as Merle had accompanied Searls to the Capitol that day, and she was glad of his company at din-She listened intently to his recital of the old man's wrongs, then lost no time in calling Searls on the long distance telephone while Ned listened eagerly to the one-sided conversation. Finshe turned to him triumphantly. "He is going to call King himself about this matter. Then I fancy both he and Chase will be ready to listen to reason when I call on them, as I shall, after interviewing Jimmy.'

Ned went outside for a romp with Yvonne and Bruiser while Nell called Jimmy into the sitting-room. He came, calmly indifferent to anything she might He was supremely well satisfied with himself, and as he had just eaten excellent dinner neatly served, he did not care what happened to the rest of the world. Looking at him, Nell was struck with his facial resemblance to a hog, a resemblance which would grow with the years, she thought, as she opened the conversation by remarking casually that she had heard Joe Green had brought his father to see him that morning.

The young man nodded. He had lost a half hour's work in consequence, he remarked drily, and he could not see why Joe could not have waited until he could treatment of your father." have talked in his own time.

is, what are you going to do towards the ask about the work. support of your old father."

'If the old man had saved his money selfishly. He had never done anything into the hands of King and other men, blame for that. If his father had been soon condemned, leaving the old man with low under him. no money to buy another. That started "Got through rippin' off swear words other types of thievery and malicious the heavy grocery bill which afterwards by the yard?" he asked presently. "coz mischief generally can never be cured by had gone into King's hands. When he "Dad brought it on himself. He has pose he liked his dinner at Collins'es? spoiled his own life by his mismanagemoney and I can't spare a cent. I am and wilted vegetables, to say nothin' uv planning to settle down in the fall, and poor flour and stale bread and skim-n that is all there is about it.

bered from his first school days.

girl to marry a whole family."

would let his parents go on the town," cried Nell, indignantly, struggling with leetle harder?" the anger which swelled in her heart and her desire to take him by the collar and you don't I'll hev the law on you." shake him as she had done when he was

ole covered with a greasy old "Mary does know what she is about;" Around this four toothless, he retorted, hotly; "and there ain't no

"There is a law which requires us to

"When you get down to talking about the Law of God, Mrs. Jackson, I believe vide for their children-not children for their parents," he sneered triumphantly. "All the old man has got left is his in my statements cobbler's bench, I believe. Mary would testimonial letters. like that, perhaps, for a wash bench," he said, insultingly. "A fine record for earned, and now to expect his children

"If Mary Adams knows that you wickedly and selfishly neglect your father this way she must expect to receive no better treatment at your hands herself," she said, cuttingly, the lightning from her eyes causing him to drop his head in shame while she continued indignantly: "Any young man who will thus neglect his old father will abuse his wife and children; and remember this, in time he will surely suffer the same way, for the Law of God is written in letters of blood on the walls of our hearts and such measure as ye mete unto others will be measured to you again. You cannot oppress the aged, the infirm and the innocent but that in God's own time it will be measured back to you in three-fold measure.'

"Let Him measure it, then," he fairly "I'll be ready for it, but I shouted. shan't open the first door to the poorhouse myself by tying myself down to an old man and a drunken woman's brat." swung on his heel and turned to go, but she called him back sharply,

"James Malley," she said unflinchingly "No man who refuses to assist his own kin can remain in our employ. I will give you your time at once and pay you till your time expires, which is next up. month. There will be no need of appealing to Mr. Jackson when he returns," added as he began to bluster. told him this noon what I should do in you persisted in your inhuman

Furious with rage the young fellow The time does not matter in the least," boited from the room, colliding on the said Nell, coldly. "What I wish to know piazza with Joe Green, who had come to is, what are you going to do towards the ask about the work. "This is your doings," he swore shaking his fist in old Joe's face, "and by the Lord I'll get even when he was able to work he would with you if it takes a lifetime. I'll make never have come to want," he told her, you beller worse than you did when Young Joe got drunk by the ice pond. I for him from the time that he was four-fixed him that time, and I will again, teen, and he did not see why he should you drunken old fool. You'll go to the be burdened with him now. Besides he Missus with lies about me, will you?" he had always been too easy; he had played roared, the last words ending in a surprised shriek as old Joe, who in spite of and if King had now got him by the his huge bulk could be nimble when he throat he (Jimmy) could not be held to tried, dexterously tripped him up and and ef sent him sprawling on the graveled walk. smart, he would have known, several Before he could rise old Joe had nimbly year ago, when King sold him two cows planted himself upon his back, where he at a bargain, that he meant mischief, sat, calmly puffing at his pipe, apparently Tuberculous cows they were, which were oblivious to the squirming, swearing fel-

he mortgaged his little home to pay and ef you have you'll hev ter listen ter me a which, at the death of his second wife, spell afore I let you up. There are t no use to flop so; yew can't hist three hunneeded money he had sold at King's dred pounds with your hundred and sevprices whatever King wished to have, in- enty-five, and the sooner you take your stead of looking for other purchasers who medicine the sooner I'll let you up. I'll would have given him their value; and so set light of yew won't be so durned unon until he had nothing left but his easy. That's right. I jest wanted to bench, the clothes on his back and his give yew a leetle taste uv the ups and old dog, which had not been covered by downs and hard squeezin's yer dad is "Now I say," continued Jimmy, takin' these days. How de't yew sup-

"Don't care? Well, that's a happy ment, and he would spoil mine if he frame uv mind to be in. Folks say that could. I want to buy a place with my they feed the porpers on tainted meat Not very fattenin' is it? Why, Jackson's Nell answered sternly with a ring in hogs here git better stuff than that. her voice which the young man remem- Wanter git up? Well, after I finish hold-"When in' yew down till I git through tellin' yew you are settled down in your home you a few things. I may never have another will have a place there for your father." such a good chanst. I know what you such a good chanst. I know what yew "No; I won't have him in my home," hev be'n doin' to my boy, Joe. I knowed he returned, sullenly. "What would she it wuz your doin's, his gittin' drunk that fill the air with a spiritual ozone that was say to have to begin life by waiting on day, and ef it hadn't ben fer Mis Nell's an old man. No ma'am. I won't ask no pleadin's Searls would ha' fired him and then he'd a gone to the devil for sure. "And no girl who knows what she is But he straightened up then and he's know are practical and they work in busiabout would marry a young man who goin' to stay so in spite uv you. Do ness of all kinds, including sanitariums. yew hear or hev I got to set down a as will be fairly tested before time is

"You let me up!" Jimmy foamed. "Ef (To be continued).

INSIDE HISTORY

Some Self-Explanatory Letters.

Battle Creek, Mich., Jan'y 7, '11. Dr. E. H. Pratt,

Cnicago, Illinois.

Suite 1202, 100 State St.,

My Dear Doctor:

"Owing to some disagreement with magazine several years ago they have become quite vituperative, and of late have publicly charged me with falsehoods in my statements that we have genuine

"It has been our rule to refrain from rublishing the names either of laymen or physicians who have written to us in a complimentary way, and we have declined to accede to the demand of attorneys that we turn these letters over to them.

"I am asking a few men whom I deem to be friends to permit me to reproduce some of their letters over their signatures in order to refute the falsehoods.

"We have hundreds of letters from physicians, but I esteem the one that you write to me in 1906 among the very best particularly in view of the fact that it recognizes the work I have been trying to do partly through the little book, "The Road to Wellville."

"I do not sell or attempt to sell the higher thought which is more important than the kind of food, but I have taken considerable pains to extend to humanity such facts as may have come to me on this subject.

"In order that your mind may be refreshed I am herewith enclosing a copy of your good letter, also a copy of the little book, and if you will give me the privilege of printing this over your signature I will accompany the printing with an explanation as to why you permitted its use in publication in order to refute falsehoods, and under that method of treatment I feel, so far as I know, there would be no breach of the code of

"I trust this winter weather is finding you well, contented and enjoying the fruits that are yours by right.

With all best wishes I am,"

Yours very truly, C. W. Post.

Dr. Pratt who is one of the most prominent and skillful surgeons in America, very kindly granted our request in the cause of truth and justice.

Chicago, Aug. 31, 1906. C. W. Post,

Mr. Battle Creek, Mich.

My dear Sir:-

"I write to express my personal appreciation of one of your business methods, that of accompanying each package of your Grape-Nuts production with that little booklet, "The Road to Well-A more appropriate, clear headed and effective presentation of health-giving auto-suggestions could scarcely be penned.

"Grape-Nuts is a good food in itself, but the food contained in this little article is still better stuff. I commend the practice because I know that the greed and strenuousness, the consequent graft and legislative action.

"The only hope for the betterment of the race rests in individual soul culture. "In taking a step in this direction, your process has been so original and unique that it must set a pace for other concerns until finally the whole country gets flavored with genuine, practical Christianity.

"I shall do all that lies in my power to aid in the appreciation of Grape-Nuts not so much for the sake of the food itself as for the accompanying sugges tions.

"Visiting Battle Creek the other day with a friend, Dr. Kelly of Evanston, Illinois, while I was consulting with Mr. Gregory, my friend visited your factories and came away greatly amazed, not only at the luxurious furnishings of the offices generally and the general equipment of the place, but with the sweet spirit of courtesy and kindness that seemed to good to breathe.

"The principles expressed in the little booklet, "The Road to Wellville," I well done.

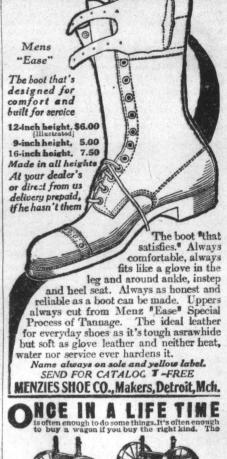
"I know you will not regard this letter of appreciation as an intruding one. It is simply the salutation of good fellow-

ship to you from a man who, although he has never seen you, feels drawn, to you by the kinship of thought.

"The only thing that makes a man live forever in the hearts of his countrymen and his race is the good that he Your position in this respect is an enviable one and I wish to extend my congratulations."

Yours respectfully,

E. H. PRATT.





depends upon the wheels. This thour Electric Steel Wheels, with spokes and wide tires. Wheels are in, It last the steel wheels are It lasts be THOUSANDS NOW IN BAILY USE

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FREE. This coupon is good for one trial bot-tle of Schlegel's Magic Eye Remedy sent to you prepaid. Simply fill in your name and address on dotted lines below and mail to the L.T. Schle-gel Co., 4879 Home Bank Building, Peoria, III.

THE MICHIGAN FARMER.

MARKETS

DETROIT WHOLESALE MARKETS.

January 25, 1911.

Grains and Seeds.

Grains and Seeds.

Wheat.—This has been a discouraging week for sellers, at every session the news showed conditions against them and values gradually drifted to a lower level. The milling demand is poor, and millers have found it difficult to get orders sufficient to keep the rollers going. As a result they have not called for much grain. The receipts in the northwest have been increasing and at many points offerings are exceeding shipments. However, in spite of the present bearish features of the trade the visible supplies of this country and Europe show a large decrease and, while there is a large amount affoat, it would seem that a reaction ought soon to come to the rescue of the bulls. It is a general opinion that large interests are letting the trade alone with the hopes that small dealers will get rid of their stocks and clear the way for larger operations later. A year ago the price for No. 2 red wheat was \$1.25½c per bu. Quotations for the week are:

No. 2 No. 1

Red. White. May. July.

Thursday ... 98% 97% 1.03% .99

| Red. | White. | May. | July. | |
|---------------|-------------------|----------|---------|--|
| Thursday9834 | .973/4 | 1.03 1/2 | .99 | |
| Friday981/4 | .971/4 | 1.03 | .9834 | |
| Saturday971/4 | .961/4 | 1.02 | .971/2 | |
| Monday971/4 | .961/4 | 1.02 | .97 1/2 | |
| Tuesday97. | The second second | 1.0134 | .971/4 | |
| Wednesday97 | .96 | 1.00% | .0174 | |

| | | | | | | | | | | | Ĉ | orn. | Ye | llow. |
|-----------------------|--|--|----|----|---|---|---|---|-------|---|-----|---------|------|-------|
| Thursday | | | | | | | | | | | | 48 | | 49 |
| Friday | | | | | | | | | | | | 4734 | | 4834 |
| Saturday | | | | | | | | | | | | 48 | | 481/6 |
| Monday | | | | | | | | | | | | 471/2 | | 481/2 |
| Tuesday . Wednesda | | | | | | | | | | | | 471/2 | | 481/2 |
| | | | 33 | 1: | L | ú | Ľ | 1 | _ | _ | - 3 | n-1.7 m | hond | ar of |

| | | | | | | | | | | | | | N | itanuai u. | 740.0 |
|----------|--|---|----|--|---|---|---|---|---|----|---|----|---|------------|--------|
| | | | | | | | | | | | | | | | White. |
| Thursday | | 1 | į. | | 2 | | | | | | | | | 35 | 341/2 |
| | | | | | | | | | | | | | | | 341/2 |
| Friday | | | | | | | | | | | | | | 05 | 341/2 |
| Saturday | | | | | ٠ | ٠ | | | | ٠ | | | | | |
| Monday | | | | | | | | | | | | | | 35 | 341/2 |
| Tuesday | | | | | | | | | | | | | | | 341/2 |
| Wednesda | | | | | | | | | | | | | | | 341/2 |
| | | | | | | 0 | p | e | r | ıi | r | 18 | 3 | Monday | there |

| Thursday\$2.05 | |
|----------------|-----|
| Friday 2.05 | 2.1 |
| Saturday 2.05 | 2.1 |
| Monday 2.02 | 2.0 |
| Tuesday 2.02 | 2.0 |
| Wednesday 2.02 | 2.0 |

| Thursday\$9.00 | \$9.05 | \$9.10 |
|-----------------------|-----------|--------|
| Friday 9.00 | 9.05 | 9.10 |
| Saturday 8.75 | 8.75 | 9.10 |
| Monday 8.75 | 8.75 | 9.10 |
| Tuesday 8.75 | 8.75 | 9.10 |
| Wednesday 8.75 | 8.75 | 9.10 |
| Parlay Prices here ar | e reduced | and |

| | Algibio ocibbil | |
|-------|-----------------|------------|
| | This week. | Last week |
| Wheat | 42,101,000 | 43,287,000 |
| Corn | 7.406,000 | 6,893,000 |
| Oats | | 15,045,000 |

| Flour.—The flour trade is easy prices changed. Patent Michigan clined while other grades advanced. | de- |
|--|------|
| tations are: | 4.45 |
| Straight | 4.85 |
| Patent Michigan | 9.19 |
| Ordinary Patent | 4.00 |

unaltered and conditions are unchanged. In car lots Michigan potatoes are selling at \$70,400 per bu.

Provisions.—Family pork, \$23,0021; smoked hams, 140,145c; briskets, 133,4c; shoulders clarify pires, 114,6c; piente hams, 114,6c; bacon, 17,018c; pure lard in tierces, 11c; kettle rendered lard, 12c.

Dairy and Poultry Products.

Butter.—All along the line prices for butter have gone down, a general decline of strong stocks that are now being offered are credited with influencing prices earthward. Extra creameries are now quoted at 254,6c; firsts, 23c; dairy, 17c; packing stock at 144,6c per lb.

Eggs.—The decline of 33/6c in egg prices the past week was followed by a 3 cent drop this week. The attempt of storage the past week was followed by a 3 cent are no put their holdings on the market at the time when fresh stock is coming in has proved detrimental to those wishing to see values remain high. Fresh receipts, case count, cases included, are now quoted at 24c per doz.

Poutry.—This deal is dull and values a fittle off; especially noticeable are the lower prices for chickens and fowls.

Poutry.—This deal is dull and values a fittle off; especially noticeable are the lower prices for chickens and fowls.

Poutry.—This deal is dull and values 4.15; wethers, 34,04.25. Look for about a real little off; especially noticeable are the lower prices for chickens and fowls.

Cheese,—Michgan, 17c; Michigan, late, 15,000; fowls, 18c; old roosters, 9c; turkeys, 13,000; flowls, 18c; old roosters, 9c; turke

controller for the work acts

| Figure | Property | Pro

FARMS AND FARM LANDS FOR SALE OR EXCHANGE

MICHICAN FARMS—Rich agricul Write for list, TOLBERT & CO., Charlotte, Michigan

128 ACRES—\$25 per a. Bldgs. ins, for \$3,000. Lays fine. Terms. 150 farms. Description and Cat. D. C. Morgan, Endicott, N. Y.

LIST No. 5 & 6 will tell you all stock Farms near Fremont, White Cloud and Big Rapids, VAN NESS, White Cloud, Michigan.

FARMS FOR SALE -240 & 110 acres. Center. W. K. Sexton, Howell, Livingston Co., Mich.

\$2,100 takes 175-acre fertile farm, valuable timber, first class \$2bligs, water, fruit, 1 mile creamery, church, R. R. town, school on farm, rural delivery, telephone. \$700 teash, balance time. Write for other farm bargains. Valley Farm Agency, Owego, N. Y.

Washington Fruit & Wheat Farms—100 acres, improv-320 acres, all in cultivation, good improvements, miles to town, \$80. J. C. Ruth, Pullman, Washington.

For Sale—Michigan Farms, Any size, from 10, to \$40. to \$110. per acre. Write for prices, or better still come and see. E. C. HANES & Co., Charlotte, Mich.

For Sale—69 Acres—8-room house, 2 barns, fruit, good own. Listen, \$2.50. The buildings are worth more D. R. REES, 724 Dollar Bank Bldg., Youngstown, O.

FOR SALE Eighty acres of the best land in Macomb Co. Near Romeo. Good buildings. Apple and peach orchard. Also alist of other farms. Eldred & Elliott, Romeo, Mich.



NOT.

THIS IS THE FIRST EDITION.

In the first edition the Detroit Live Stock markets are reports of last week; all other markets are right up to date. Thursday's Detroit Live Stock markets are given in the last edition. The first edition is mailed Thursday the last edition is mailed Thursday the last edition is mailed Thursday the last edition is mailed to those who care more to get the paper early than they do for Thursday's Sellows. Bishop, B. & H. sold Hammond, S. & Sellows. Bishop, B. & H. sold Hammond, S. & Sellows. Sell

DETROIT LIVE STOCK MARKETS.

Thursday's Market. January 19, 1911. Cattle.

Receipts, 1.188. Market steady at last week's prices on all grades.

We quote: Extra dry-fed steers and heifers, \$6@6.50; steers and heifers, 1,000 to 1 200, \$5.25@5.50; steers and heifers, 800 to 1,000, \$4.75@5.25; steers and heifers, 800 to 1,000, \$4.75@5.25; steers and heifers that are fat, 500 to 700, \$4.25@5; choice fat cows, \$4.50@4.65; good fat cows \$4.94.25; common cows, \$3.25@3.75; canners, \$2.75@3; choice heavy bulls, \$4.50 44.75; fair to good bolognas, bulls, \$4.60 44.75; fair to good bolognas, bulls, \$4.60 44.50; fair to good bolognas, bulls, \$4.60 44.50; fair to good bolognas, bulls, \$4.60 44.50; fair stockers, 500 to 700, \$4.86.965; fair feeding steers, 800 to 1,000, \$4.65.965; fair feeding steers, 800 to 1,000, \$4.65.965; fair feeding steers, 800 to 1,000, \$4.65.965; fair feeding steers, 800 to 1,000, \$4.60.450; fair stockers, 500 to 700, \$4.35.90.37.5; tock heifers, \$3.50.93.75; milkers, large, young, medium age, \$4.09.60; common milkers, \$25.935.

The big run of cattle has overloaded the market and prices at the close were 10.915c lower than the opening quotations. Bishop, B. & H. sold Goose 2 heifers av 360 at \$4.50; to Parker, W. & Co. 8 steers av 9.62 at \$5.65; 1 cow weighing \$40 at \$4.50; to Parker, W. & Co. 8 steers av 9.62 at \$5.65; 1 cow weighing \$60 at \$4.50, 7 steers av 1,003 at \$5.50, 2 do av 1,000 at \$4.55, 1 do av 805 at \$5.20, 2 do av 1,000 at \$4.55, 1 do av 805 at \$5.20, 2 do av 1,000 at \$4.55, 1 do av 805 at \$5.50, 2 do av 980 at \$5.50, 1 do av 800 at \$5.50, 2 do av 1,000 at \$4.50, 4 do av 860 at \$5.50; to Sullivan P. Co. 9 cows av 1,011 at \$4. to Parker, W. & Co. 30 heifers av 800 at \$5.20; 2 butchers av 760 at \$4.50, 4 do av 860 at \$5.50; to Sullivan P. Co. 9 cows av 1,011 at \$4. to Parker, W. & Co. 6 butchers av 875 at \$4.60, 2 steers av 876 at \$4.50; to Kamman B. Co. 1 steer weighing 930 at \$5. 20 do av 980 at \$5.75; to Parker, W. & Co. 6 butchers av 875 at \$4.60, 2 steers av 876 at \$4.60; 2 do av 980 at \$5.50; do av

COWS av 1,070 at \$4.60.

Veal Calves.

Receipts, 491. Market steady at last week's prices. Best, \$9@9.50; others, \$4@8.50; milch cows and springers steady. Kendall sold Burnstine 5 av 150 at \$9, 17 av 140 at \$9.

Leach sold same 5 av 165 at \$6, 6 av 130 at \$9; Kendall sold same 19 av 125 at \$8.50.

Bishop, B. & H. sold Parker, W. & Co. 6 av 150 at \$9, 50, 2 av 115 at \$8.50, 21 av 130 at \$9; to Newton B. Co. 5 av 400 at \$4.50; to Hammond, S. & Co. 1 weighing 160 at \$9.50; 2 av 120 at \$9, 1 we_hing 140 at \$9.50; to Nagle P. Co. 2 av 310 at \$5.50, 3 av 170 at \$9; to Hammond, S. & Co. 3 av 135 at \$9.50, 5 av 135 at \$9, 6 av 140 at \$9.50.

Spicer & R. sold Mich, B. Co. 5 av 400 at \$9.50.

at \$9.50.

Spicer & R. sold Mich. B. Co. 5 av 125 at \$9; to Hammond. S. & Co. 4 av 140 at \$9.25, 3 av 110 at \$8, 11 av 140 at \$9. 1 weighing 110 at \$9, 5 av 125 at \$9, 2 av 120 at \$7.50.

av 120 at \$7.50.

Sheep and Lambs.

Receipts. 6,929. Lambs 25c lower than on Wednesday of last week. Sheep 25c higher. Best lambs, \$5.75@6; heavy lambs \$5@5.50; light to common lambs, \$4.50@ 5.25; fair to good sheep, \$3.50@4.25; culls and common, \$2.75@3.25.

Over 10,000 sheep and lambs today; close will see many unsold and market 25c lower than opening.

Bishop, B. & H. sold Sullivan P. Co. 12 lambs av 55 at \$5.50, 14 do av 110 at \$5.35, 11 sheep av 100 at \$4.15 do av 90 at \$5.50, 12 do av 90 at \$5.50, 20 do av 85 at \$5.75, 194 do av 90 at \$6.50 do av 77 at \$5.75, 194 do av 90 at \$6.50 do av 77 at \$5.75, 194 do av 90 at \$6.50 do av 77 at \$5.75, 194 do av 90 at \$6.50 do av 77 at \$5.75, 194 do av 90 at \$6.50 do av 77 at \$5.75, 194 do av 90 at \$6.50 do av 77 at \$5.75, 194 do av 90 at \$6.50 do av 10 at \$3.75, 194 do av 90 at \$6.50 do av 35 at \$5.90, 104 do av 35 at \$6.50 do av 35 at \$6.50 do av 35 at \$5.50, 210 do av 35 at \$6.50 do av 35 at \$5.50, 210 do av 35 at \$6.50 do av 35 at \$5.50, 210 do av 35 at \$6.50 do av 35 at \$5.50, 210 do av 35 at \$6.50 do av 35 at \$5.50, 210 do av 35 at \$6.50 do av 35

Sharp sold Newton B. Co. 10 lambs 67 at \$5, 73 do av 80 at \$5.50.

\$8.15. Sundry shippers sold same 460 av 195 at \$8.10. Roe Com. Co. sold Sullivan P. Co. 150 av 130 at \$8.15, 60 av 165 at \$8.20. Haley & M. sold same 360 av 175 at \$8.15.

\$8.15

Friday's Market. January 20, 1911. Cattle.

Receipts, this week, 1,747; last week, 306. Market 15@25c lower than Thurs-1,306.

1,306. Market 15@25c lower than Thursday's opening.

We quote: Extra dry-fed steers and heifers, \$6; steers and heifers, 1000 to 1,200, \$5,50@5.75; steers and heifers, 800 to 1,000, \$5,50.50; steers and heifers that are fat, 500 to 700, \$4.50@5; choice fat cows, \$4.50@4.75; good fat cows, \$3.75@4; common cows, \$3.25@3.50; canners, \$2.75@3.25; choice heavy bulls, \$4.75; fair to good bologna bulls, \$4.50@4.65; choice feeding steers, 800 to 1,000, \$4.50@4.75; fair feeding steers, 800 to 1,000, \$4.50@4.75; fair stockers, 500 to 700, \$3.75@4.25; stock heifers, \$3.50@4; milkers, large, young, medium age, \$40@55; common milkers, \$25@35.

Veal Calves.

Veal Calves.
Receipts this week, 852; last week, 737.
Market steady at Thursday's prices. Rest grades, \$9@9.50; others, \$4@8.50. Milch cows and springers steady.
Sheep and Lambs.
Receipts this week, 11,278; last week, 8,962. Market 25c lower than Thursday's opening; steady with the close. Best lambs \$5.50@5.75; heavy lambs, \$4.75@5.25; light to common lambs \$4.50@5.25; fair to good sheep, \$3.50@4; culls and common, \$2.50@3.

Receipts this week, 5,343; last week, 5,317. Market 10@15c lower than on Thursday. Range of prices: Light to good butchers, \$8; pigs, \$8; light yorkers, \$8.



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Sen. Dunlap 32 per 1000. 100
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tongue truck. Farmers experience great satisfaction in owning JOHNSTON ma-chines because they are built along quality lines, are durable and economical to maintain.

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A HOMELY TALK ON A HOMELY THEME.

mothers and daughters have not mastered hate to wash dishes."

while unpolished, linty glasses are so by themselves in neat piles. ever, to inspect those dishes every class hour, but I always do and make every girl do her work over again until it sat-

Now what do you suppose their mothers are like? Nearly every one of those girls comes from a family where they keep no help. They surely wash dishes occasionally for their mothers. Are the mothers as careless and untidy as the girls, or are they too weak-willed to make the daughters do their work right?"

I should like to believe that the mothers are careful themselves and negligent with their daughters, but I'm afraid such is not the case. Just at present I am being "helped" by a woman who has been married and has kept house eight years. Dishes come to the table with traces of rinsing water lingering in saucers and on plates, pitcher handles are sticky, basins are thrust in the cupboard with touches of puddings and gravy clinging lovingly to the edges and spots of rust show up occasionally on the carving set. Of course I try discreetly and tactfully to call attention to these trifles, but it is Especially very wearing on the nerves. does it hurt when the man of the house takes his clean napkin and carefully rubs the plates before serving the dinner. And the nervous strain has become so great house washing her own dishes and the erstwhile queen of this kitchen sending in half-washed dishes to another mis-

give rise to the belief that the dear old sionally peep into a kitchen and see a during the dishwashing, it is emptied out Much amusement will be shown when ladies know just how that job should be woman or girl with a quart of cold, dirty, and clean hot suds procured. done. Perhaps they do, I hope so. But greasy water in a large pan making desrience of cooking school teachers whom grease from cold plates and platters, I the other slovenly method of cold water cies for a party any time during Jan-I know leads me to believe that the do not wonder that so many women "just with floating crusts and grease all over uary. One shows a "Calendar Cake."

the simplest detail of this art.

Many sneers are cast at the cooking "Out of the 300 girls who come to my schools by those housekeepers who are Many sneers are cast at the cooking classes during the week there is not one not friends with new ideas. But at least I can trust to wash and dry the dishes." the cooking teachers are doing their noble This is the charge of one teacher in the Detroit schools. "If one girl removes all the dirt from her dishes she will put them take is the introduction of system into away half dried. Another will leave par-ticles of food sticking in crevices, others first and arranged neatly according to slip knives and forks away unscoured, class, glasses, cups, saucers, plates, etc., common I no longer feel my gorge rise all crumbs and particles of food are carewhen I see them. It is some work, howremoved before the dishes are stacked up. Then the pan is well filled with plenty of hot water, water not hot enough to injure the enamel of the dishes but hot enough to quickly remove the food, a good suds is made and the work

Glasses are washed first, rinsed, and then dried and polished on a cloth re-served especially for them. Then come the top. By the first method one could large cake iced with ornamental frosting the cleanest being first washed. Every dish is rinsed in hot water and carefully There is a saying that little things show dried and polished. Absolute cleanness character more than great. If that is so, Neither is the same dish cloth used for eth to do, do it with thy might." everything, but one is kept for the tins

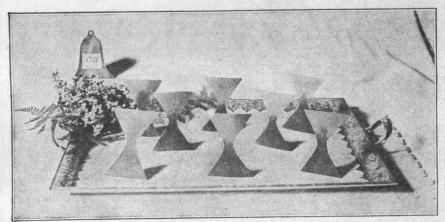
WELY TALK ON A HOMELY THEME.

dishes are disposed of the table is scrubbed, the dishpans carefully washed clean try to teach your grand- soap and clean dish towels, why isn't it er to wash dishes." is a say- really again to work dishes are disposed of the table is scrubbed, the dishpans carefully washed clean and as carefully dried, and the dish toweach with a wee envelope which he can elsewhere the work of the table is scrubbed, the dishpans carefully dried, and the dish toweach with a wee envelope which he can elsewhere the work of the table is scrubbed, the dishpans carefully dried, and the dish toweach with a wee envelope which he can elsewhere the work of the table is scrubbed. and frying pans. Then, when all the Fortunes can also be told if desired, by mother to wash dishes," is a say- really easier to wash dishes clean than ing we hear so frequently as to to leave them half done? When I occa-

Now who would mind washing dishes that way? Surely it is far easier than

these are opened and are found to contain "thyme."

Our illustrations show two pretty fan-



Hour-galss Boxes Covered with Tissue Paper, Containing Trifling Gifts for the Guests.

the cups, saucers and teaspoons, the not fail to have clean dishes; by the secknives and forks, plates and other dishes, ond, only a miracle could bring the dishes out spotless and well dried.

and dryness is secured by having plenty dishwashing must be a terrible revealer hour glass boxes covered with tissue paof clean cloths. Instead of drying every- of souls. A motto I should like to see put thing from glasses to pans on one cloth, in practice in this "menial task" as well there is a cloth especially for glasses, an- as in every other branch of housework, other for silver and a third for china. reads thus: "Whatsoever thy hand find-

DEBORAH.

put on in abbreviation of the different months of the year. Stuffed dates ornament the top of the cake and little flags fly from their tops bearing the date 1911.

The second picture shows a tray with per. These can be filled with candy, both top and bottom. Tiny little candies should, of course, be used, as the boxes must necessarily be small. Forget-menots, a floral reminder of the year that is past, can grace the tray at the left and a bell-shaped card may be marked 1911. Similar cards are used as place cards, or flowers may be used tied to a simple calendar at each place by means of baby ribbon. It would be a pretty fancy to use 12 different kinds of flowers to typify the 12 months of the year.

I give below some recipes which the hostess will find acceptable during the month of January when cold weather appetites prevail. If one lives near a lake or pond where there is good skating, a festivity described above may be combined with skating upon the pond, having supper after the skaters come in, when the warmth of the cheery dining room and the pretty decorations will add a spice to viands that are savory of themselves.

A Good Snow Pudding.

Pour a cup of boiling water over a cup of sugar. Let boil two minutes and add a tablespoonful of gelatine that has soaked for a short time in a little water. 1911. Give each person a paper sail to Take from the fire and stir in some pistachio extract. Beat the whites of three eggs stiffly and pour the mixture over 1911 can be marked off into twelve sec- them, beating all the time. Let it chill tions and some trifling prize can be given quickly and put in a pretty dish to cool. to the ones who place their yachts upon It can be decorated with strips of ma-

Potato Fingers.

To a pint of cold mashed potatoes add in hot fat.

Chowder Toast.

Cut pieces of bacon into small cubes abbreviation of one of the months of the and fry brown. Add two cups of canned year on each one. January, February, corn and two of canned tomatoes, with March, etc. Have a time limit and let all enough water to make of the proper conhunt until as many of the rounds are sistency and cook slowly for half an hour. found as is possible. Then ring a bell to Season with salt and pepper and pour

Baked Date Pudding.

two cups of dates in small pieces, add Another idea is to call upon each person two cups of English walnut meats broken to speak a piece or sing a song illustrat- fine, the whites of five well-beaten eggs ing the month in which they were born, to which are added two teaspoonfuls of

JANUARY PARTY.—By Marjorie March.

pretty little party any time during the any time during January. year out" to make this possible. To al- cheaper in the shops, and who can have most everyone New Year's comes so too many calendars? quickly after Christmas that there is that next week will find the lady of the hardly time to grasp the fact that the old on cards decorated with a ship under full year has gone and new calendars are to sail. It is quite possible that one can be hung high and a new numeral grace one's writing paper.

New Year's bells and calendars of ev-Really, with plenty of clean, hot water, ery shape, and festoons of crepe paper

The New Year can be the motif for a or paper moss make dainty decorations Even if calmonth of January, for it is not necessary endars have been plentiful before Christthat one ask one's guests to "see the old mas they are more so now, besides being

Odd little invitations may be sent out find these on picture post cards. On the sail write "1911" and underneath:

"The ship is all ready asail

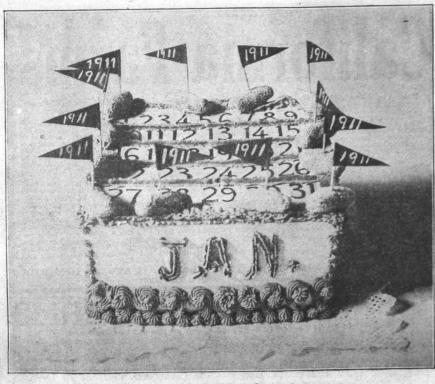
And we've quite a journey to go We start out together

Lets hope for fair weather That joy winds of gladness may blow.

Come aboard 8 o'clock without fail." An interesting game for the guests to play when all have arrived, would be to have a "yacht race" upon the Sea of represent a sail boat with one month of the year written upon it. The "sea" of the square that their month should come jolica and candied cherries which make in, according to the calendar.

Little calendars would be dainty prizes or boxes of stuffed "dates" would be good. These can be made very easily. Remove a cup of flour, one teaspoonful of baking the stones from dates and insert a pea. powder and two well-beaten eggs. Mix nut kernel in each. Then roll the dates thoroughly, mould into "fingers" and fry

in granulated sugar. Another pleasing game to play is to hide small rounds of cardboard with an proclaim the hunt off and give some trif- over slices of well-browned toast. ling prize to the one whose year will have the most months in it, or to the one who shows the most complete calendar, as January when "dates" are in order. Cut



A Calendar Cake for a Centerplece.

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baking powder and three of powdered sugar. Bake in a moderate oven and serve with whipped cream.

Date Jelly.

Soak one-half of a box of gelatine in one-half cup of cold water and cook three-fourths of a pound of dates until hot and tender. Drain and save the juice to the amount of one cupful and pass the dates through a seive. Add a cup of sugar, the dissolved gelatine, the juice from the dates and half a cup of orange juice. Pour into small moulds and decorate each with whipped cream,

Mutton Croquettes.

Put some lean mutton through the meat grinder and season with salt, pepper and a few drops of onion or lemon juice, whichever is preferred. Mix with a thick cream and set aside to cool thoroughly. When cold, mould into the desired shape, roll in beaten egg and in bread or cracker crumbs and fry in deep fat until a dainty brown. If desired, a cream sauce with canned peas may be served with the croquettes.

A Cake Pudding.

When one does not care to serve ice cream this dish is suitable for a little company dessert. Put some coarsely crumbled sponge cake in a dish and over it lay a few candied cherries, then sweetened whipped cream; then more cake crumbs, cherries and cream. away to get very cold and when ready to serve unmould and serve with hot chocolate sauce.

Raspberry Omelet.

Beat the yolks of six eggs very light with a heaping teaspoonful of powdered sugar. Into this stir one teaspoonful of cornstarch dissolved in three tablespoonfuls of cream. Add the beaten whites of the eggs. Fry in an omelet pan, spread with raspberry jam, fold over and sprinkle with powdered sugar.

A pretty fancy for a January repast is to have little menu cards decorated with tiny calendars and have 12 articles of food written below in 12 little squares. These articles can form the menu and the little card will serve as a pleasant reminder of the feast. At a table where 24 guests are bidden, the table can be divided into 12 sections and each two persons can be allotted to "one month" of the year. Ten different colored strands of twisted crepe paper, used as runners over the whole cloth, can divide the table into these sections, the table ends serving as the two other natural ends. Twelve little "ships" can sail down the center of the table, one for each month, with the abbreviation of the month emblazoned on the sail. Little toy sail boats can be used, laden with fruits and flowers or with candies, nuts and vines.

PINEAPPLES CONTAIN PEPSIN. No. 34.

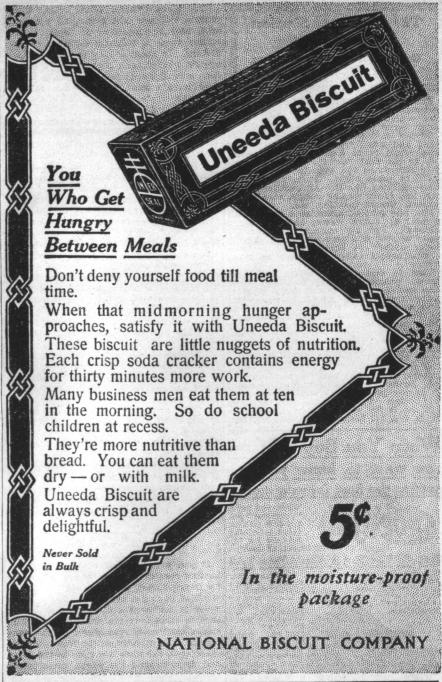
BY MRS. ALTA L. LITTELL.

ESIDES the domestic fruits, such as peaches, plums, cherries, quinces and the various sorts of berries, the housekeeper uses several fruits which come from other countries, or other parts of our own. The most important are oranges, lemons, prunes, apricots, raisins. pineapples, bananas, grape fruit, dried currants, figs and dates.

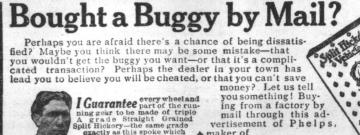
Oranges, while valuable for their beneficial effect on the blood and stomach are not particularly nutritious. They are used chiefly because of their agreeable flavor and to give tone to a jaded appetite, and are served in a variety of ways. For breakfast an orange eaten gives one a good appetite for what is to follow. The juice is of great value as a bowel regulator for infants. Bables as young as three months may be given a tablespoonful of the juice diluted with an equal quantity of water, and as they grow older the water may be gradually decreased while the quantity of juice is increased. medicines or drugs, to say nothing of its being much more palatable. The juice contains 7.6 per cent sugar; 1.7 per cent citric acid, and a small amount of phosphoric acid, besides other substances

Lemon juice contains besides citric and phosphoric acid, some malic . -id. Lemons are fine for billiousness, but not well suited to weak stomachs. Lemon juice is sometimes used in treating diphtheria and other throat and nasal diseases. In lemonade it makes a delicious and refreshing drink for summer.

Grapefruit resemble oranges in construction, having the same sections separated by tough, white membrane, and filled with a juicy pulp. The juice is much more bitter than orange juice, and has a characteristic flavor. The fruit is served "in the half shell" the same as oranges.







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This recipe makes a pint of cough syrup—enough to last a family a long time. You couldn't buy as much or as good cough syrup for \$2.50.

Simple as it is, it gives almost instant relief and usually stops the most obstinate cough in 24 hours. This is partly due to the fact that it is slightly laxative, stimulates the appetite and has an excellent tonic effect. It is pleasant to take—children like it. An excellent remedy, too, for whooping cough, sore lungs, asthma, throat troubles, etc.

Mix one pint of granulated sugar with ½ pint of warm water, and stir for 2 minutes. Put 2½ ounces of Pinex (50 cents' worth) in a pint bottle and add the Sugar Syrup. It keeps perfectly. Take a teaspoonful every one, two or three hours.

hours.

Pine is one of the oldest and best known remedial agents for the throat membranes. Pinex is the most valuable concentrated compound of Norway white pine extract, and is rich in guiaicol and all the other natural healing elements. Other preparations will not work in this formula.

formula.

The prompt results from this recipe have endeared it to thousands of house-wives in the United States and Canada, which explains why the plan has been imitated often, but never successfully.

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W. W. WEAVER, -: Reading Michigan, I. D.

Prunes are a sort of plum, dried. They contain 3.56 per cent sugar, 1.5 per cent acid, and a purgative principle which makes them a valuable addition to the dietary. In cooking they should be thoroughly washed, and soaked for 12 hours, then stewed slowly in the water in which they have soaked. Raisins are said to save the waste of nitrogenous tissues of the body and to form fat. They contain a large amount of grape sugar, and as they are nutritious and easily carried, they are frequently carried by travelers as a good food. It is claimed that they increase the flow of urine, and so are frequently given to children for this purpose. Currants of commerce come principally from Greece. They are picked from the stalks and dried in the sun, and as the pure food and sanitary packing laws of the United States are not in

clean them thoroughly before using. Pineapples contain a vegetable pepsin, which is of great value in aiding in the digestion of albuminous foods. Its value is lost, however, if the juice is scalded, and is best obtained by serving the fruit raw without sugar. The pineapple is valuable in throat trouble and cases of malaria.

force in that country, it is advisable to

Bananas, while containing proteids and fats and sugars, making them a nutritious food, are not a valuable food for children They are served raw, in salads, in puddings, baked and fried. They are particularly good cut in quarters and sauted in butter with a tablespoonful of Worcestershire.

Figs, which are natives of the Mediterranean region, are very nutritious, containing from 60 per cent to 70 per cent of sugar. Dates are imported from northern Africa, Persia and Palestine. They form a large part of the food of the Arabs, a fact which speaks for their nutritive value.

A NEW STYLE ROASTER.

If you are thinking of buying a selfbasting roaster there is one which seems an improvement over the old style. Instead of having a cover rounding up, this cover is hollowed out so that a convex surface rests over the roast or fowl. The steam condensed runs down to the center and falls directly on the meat. In the other style the moisture runs to the sides and drips around the edges, often never touching the meat or fowl.

A HOME-MADE DRESS FORM.

BY E. J. LYNCH.

For the woman who makes her own dresses the fitting of the waist is the greatest problem. This difficulty can easily be overcome by making a fitting form, Cut from cheap cotton, a waist lining, sleeves and all, that fits exactly. Stitch it together. Put a row of hooks and eyes down the front. Have the sleeves the exact length. Stuff this with excelsion or short straw rounding it out so that it is perfectly even in every part. Cut a bottom for the form of firm cardboard and fasten the "dummy" to it. Cut a collar of limber pasteboard to fit the neck W! en this is and baste it in at the *... done you have a waist form as useful for all practical purposes as the most modern dressmaker's model, at a cost of a little time and about ten cents.

SHORT CUTS TO HOUSEKEEPING.

Take hard boiled eggs and halve them Remove the yolks and chop up with a mixture of vinegar, parsley, salt, pepper and butter. Replace them in the whites of the eggs and serve for lunch .- Mrs. Z. I. D.

Black stockings are apt to assume a peculiar greenish look after repeated washings. A simple way of preserving the color is to wash them with soap that s free from soda and to add to the last rinsing water a teaspoonful of good vinegar. The stockings should be wrung out and clapped into shape. A hot iron will destroy the color of stockings, particularly if they are wet .- Mrs. J. J. O'C.

To raise a low table to a convenient height for dishwashing or other work, place the legs on four bricks. A still simpler method where a table of ordinary height is used for various purposes is to place the dishpan upon an inverted milk pan or on a wooden box three or four inches high. Low stoves and tables are conducive to stoop shoulders.-E. E. R.

Leave a salt bag of ashes in the cistern

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GRANGE

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

THE FEBRUARY PROGRAMS.

State Lecturer's Suggestions for First Meeting.

Music led by Grange chorus.

Recitation.

Dairying, I—Making good milk. Talks by a man and woman, followed by discussion.

Use of the Babcock Test.

Three anecdotes concerning Abraham

Lincoln.

Public affairs in which we are specially interested: (a) National; (b) State; (c) County; (d) Local.

Stunts, in charge of a Surprise Committee of young people.

Suggestions for Second Meeting.

Opening song.
Reading, "The Worth of a Boy."
Review of a late number of my favorite paper or magazine, briefly reported by a man and woman.
Music, by Grange orchestra.
Home Nursing, I—Hints on care of the sick—in charge of Woman's Work Committee

Music.
Distinguished guests—some illustrious Song.

PRINTED PROGRAMS AND YEAR BOOKS.

In the past year or two a number of more enterprising subordinate Granges have made a practice of issuing printed programs, on special occasions, at least, while several of the stronger Pomona Granges have demonstrated the practicability of the year book. In some instances the printed programs have been made to cover the meetings for two or three months in advance. In one case subordinate Grange last year issued its programs quarterly in the form of a good-sized calendar for each quarter. It is not a very great step from this to the year book containing dates and programs of all meetings and other events to occur under Pomona auspices during the year. The advantage of announcing programs several months or even a year in advance, and of having them in an easily preserved form, is coming to be generally appreciated by lecturers. The use of the year book seems the more commendable, for Pomona Granges at least, since experience has shown that for a book that is to be distributed over an entire county it is possible to secure sufficient local advertising to cover the cost of issuing the book. It is hoped that every Grange will at least consider the feasibility of im-

50,000 NEW MEMBERS WANTED.

State Master Hull has set a stake at 100,000 as the total Michigan Grange membership desired at the close of 1911. This means practically the doubling of our present membership. If all Granges in the state might somehow be inoculated with the spirit and enthusiasm in which some are already preparing to bring in their quota of this gain, success would seem to be already assured.

But spirit and enthusiasm, ranging however high, will not alone suffice in any campaign for progress. A membership campaign is no exception to this rule. In order to succeed, it must be organized; it must have definite ends; and, certainly. if the Grange in Michigan aspires to dou-

that draws the train?" principle, make the practical application in this matter of securing new members for Michigan Granges. Set standards, ofprizes, inaugurate contests, and by all just means stimulate action of the Grange body for this splendid burst of effort which, if successful, will make Michigan the foremost state in the Grange JENNIE BUELL.

SYLVAN GRANGE HOME-COMING.

Saturday, Jan. 14, was a day never to be forgotten by the members of Sylvan Grange, of Oceana Co. It was the occasion of our "Hôme Coming," and invitations had been issued to all former mem-

sion of our "Home Coming," and invitations had been issued to all former members whose addresses were known. A very pleasant response to one of these invitations came from Sister Wilson of Iowa, in a paper entitled, "The Home Beautiful." Seldom have we witnessed a larger gathering, and, probably never in its history has Sylvan Grange enjoyed a more profitable meeting.

The "roll call," conducted by the lecturer, consisted of responses from those present to the question, "Why I like the Grange." Bro. Marvin, of Benona Center Grange, installed the officers for the ensuing year and gave a good report of the meeting of the State Grange held at Traverse City.

Deputy State Master D. E. McClure, of Muskegon Co., delivered the address. The presence of Bro. McClure brought back memories of the old days, the days that witnessed his splendid work in the educational field as county commissioner of schools, uniting, by his untiring efforts, home, Grange and school, and thus placing Oceana county in the front rank in those things that pertain to higher living and better citizenship.

The Home Coming will be made an annual affair in our Grange.—W. F. Taylor,

COMING EVENTS.

Pomona Meetings.

Arenac Co., with Bay Grange, at Arenac, Friday, Feb. 17. Geo. B. Horton, state speaker. Installation of officers.

FARMERS' CLUBS

Address all communications relative to the organization of new Clubs to Mrs. C. Johnson, Metamora, Mich.

Associational Motto.-

The skillful hand, with cultured mind, the farmer's mest valuable asset.

Associational Sentiment.-

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

CLUB DISCUSSIONS.

Have Reports on Production.-The Looking-glass Valley Farmers' Club enjoyed a regular gala day Jan. 10, when nine sleigh loads, and others to the numproving the lecture work this year through ber of 120, rose early, did the chores and the issuance of advance programs in some started on the ten-mile ride to the new and beautiful home of their late president, A. B. Niles. Their efforts were well rewarded by the warm welcome and genial smiles of President Niles and wife, and then such a dinner, and such appetites. The gentlemen spent the forenoon in looking over the well-equipped dairy barn, while the ladies sang the praises of the fine lighting and water system in the house. The afternoon program opened with music by the "old folks," followed by a report by J. J. Maier on 20 hogs raised at a cost of \$172 and sold for \$285.60, and a report by Carl Miller on nine acres of corn grown at a cost of \$177, and value at \$288, after which the following officers were elected for the new year: Pres. King Lee; vice-pres., H. S. Bliss; sec'y, F. C. Openlander; treas., C. N. Plowman, with a good strong force of ladies' committees.—Bel Maier, Reporter. Reporter.

ble its membership, it has a definite aim in view. Moreover, it has a job on its hands that calls for most skilled handling. At least three necessary features must be forthcoming if such a campaign is to succeed, that is, if we win 50,000 new of his western trip this last summer. He members. In concise terms, the three essential features of such a proposed campaign will need to be system, persistence and stimulus.

Believing the purely an agricultural state, no manufacpurely an agricultural state, no manufacturing, and the three main crops are wheat, oats and flax. The United States furnishes seven-tenths of the flax of the world and North Dakota seven-eighths of that. They are now experimenting, trying to make linen from the flax straw. This Club was organized in 1872 and Mr. Casteriin has the honor of being the first grandson of a charter member to give us an address, although we have had recitations from grandchildren of other charter members. After brief memorial talks ter members. After brief memorial talks for Mr. Watts and Mrs. Elizabeth Rowe, the Club adjourned to meet the second saturday of February with Mr. and Mrs. W. H. Taylor, at Lone Oak Farm.—Mrs. J. E. Tanswell, Cor. Sec.

J. E. Tanswell, Cor. Sec.

Do Not Favor County Road System.—
The Spring Arbor Farmers' Club met with Mr. and Mrs. Samuel Hunsicker on Jan. 7. The meeting was called to order by President J. W. Dart. After the opening song, devotionals and reading of the minutes of the two previous meetings, the usual routine of business was taken up until dinner was served. After the chicken pie was disposed of business was resumed. Election of officers came first. Then the discussion of the "County Road System" was taken up. An expression in regards to adopting the "County Road System" was taken, which resulted in a unanimous disapproval. Club adjourned to meet the first Saturday in February unanimous disapproval. Club adjourned to meet the first Saturday in February with Mr. and Mrs. Charles Forsythe:

Mrs. J. W. Dart, Club Reporter.

Oppose Taxation of Mark

with Mr. and Mrs. Charles Forsythe,—
Mrs. J. W. Dart, Club Reporter.

Oppose Taxation of Mortgages.—On
Jan. 11 the Wixom Farmers' Club held its
annual meeting at the Maccabee Hall at
Wixom, being entertained by our president and wife, Mr. and Mrs. B. L. Nicholson. It was a very stormy day, but none
the less dinner was served to 50 people.
At 2 o'clock the president called the meeting to order and the following officers
were elected for the coming year: President, B. F. Nicholson, this making ten
years he has been our president; first
vice-president, D. Gage; second vicepresident, J. Bishop; recording secretary,
Miss Neva Kinney; corresponding secretary, Mrs. R. D. Stephens; treasurer, C.
H. Kinny. The question most thoroughly
discussed was, "Taxation of Mortgages."
The decision was that we do not want
double taxation. An excellent recitation
was given by Mrs. H. Richardson, entitled, "The Tramp." Club then adjourned to meet Feb. 8, 1911.—Mrs. R. D.
Stephens, Cor. Sec.
Elect Officers.—The Wise Farmers'
Club met with Rev. and Mrs. I. Walker
at the M. E. parsonage in Clare, Dec. 14,
1910. After a sumptuous dinner the president, J. H. Seeley, called the Club to
order. Opening song, America. Prayer
by J. Phillips. Words of welcome by the
host. Response by S. H. Wilson. This
being the annual meeting the Club proceeded to elect officers for the ensuing
year: Pres., Jas. H. Hersey; vice-pres.,
P. M. Loomis; sec., Maggie Phillips;
treas., Samuel McJames; organist, Edna
Seeley; chaplain, Jas. Phillips. Symposium, "Watchmen, what of the night." P
A. Bennett gave a good talk on the political issues of the day, and J. H. Wilson,
J. F. Fatman on reform. Mrs. S. McJames and Rev. Walker on religion. The
talks were all good and right to the point,
Mrs. Mabel Glover read an Irish story
that brought the house down. A vote of
thanks was extended to Rev. and Mrs.
Walker for their hospitality. Adjourned
to meet with Mr. and Mrs. J. H. Seeley
in January.

Have Report of State Meeting.—The January

to meet with Mr. and Mrs. J. H. Seeley in January.

Have Report of State Meeting.—The East tisco Farmers' Club met at the pleasant home of Mr. and Mrs. Fred Currey, of Orleans, Thursday, Jan. 5. There were between 35 and 40 present. After a sumptuous dinner was served, the president, A. L. Benedict, called the meeting to order and the election of officers was first. M. L. Howe was elected pres; C. V. Cooper, vice-pres.; Miss Edna Nummer, sec.; Mrs. M. L. Howe, cor. sec.; S. G. Chickering, treas. There was a very interesting report of the State Association of Farmers' Clubs at Lansing, by the delegates, Mr. and Mrs. John Kohn, and a reading by Mrs. Emory Chickering, which was good. The next meeting will be at the home of Mr. and Mrs. John Kohn the first Thursday in February.—Mrs. M. L. Howe, Cor. Sec.

February.—Mrs. M. L. Howe, Cor. Sec.

Discuss Advantages of Farm Life.—The
Twentieth Century Farmers' Club met in
January with Floyd Dancer and wife,
with a good attendance of both members
and visitors. The secretary and treasurer
gave their annual reports, showing the
Club on a better financial standing than
usual. We were thankful that there were
no deaths and a gain of four members
and, during the year, an average attendance of 30 or more. Our re-elected president, Wm. Hewlett, gave his inaugural
address. The retiring secretary, Mrs.
Hewlett, gave words of thanks for the
kindness and support given her during
the ten years she had held the office and
commended to us her successor, Mr. Burr
Ashley. The question, "Advantages and
disadvantages of country life." was disessential features of such a proposed campaign will need to be system, persistence and stimulus.

1. System. "Given two minutes in which to act, take one in determining how to act," is a rule that rarely leads amiss in matters of this sort. Decide early upon some orderly system for going about the doubling of Grange membership, remembering that definite concert of action will avail more than scattering individual efforts.

2. Persistence. That "no plan will work itself" is a trite saying, I well know, but it is so true that one who really wishes to succeed will not forget it for a day.

3. Stimulus. Have you ever had your as certain amount of heat to keep the food of the country was built upon credit, commer-del to us her successor. Mr. Bur for fire, running on the ground fire, running on the ground fire, running on the commended to us her successor. Mr. Bur for his then the top fire, which is the most danderbrush; then the top fire, which is the most danderbrush; then the top fire, which is the most danderbrush; then the top fire, which is the most danderbrush; then the top fire, which is the most danderbrush; then the top fire, which is the most danderbrush; then the top fire, which is the most danderbrush; then the top fire, which is the most danderbrush; then the top fire, which is the most danderbrush; then the top fire, which is the most danderbrush; ashley. The question, "Advantages of country life," was disgrous. Fires catch in various ways, cused vigorously. Two fine papers were fread, written by Mrs. Geo. Dancer, respectively. The difference in public sentiment on this question, "Ashley. The function ways, cused vigorously. Two fire proves, ways, cused vigorously. Two fire proves, ways, cused vigorously. Two fire proves, cused vigorously. Two fire proves, cused vigorously. Two fire proves, and the underbrush; as the most of as turning mass will fly two or ference in public sentiment of th

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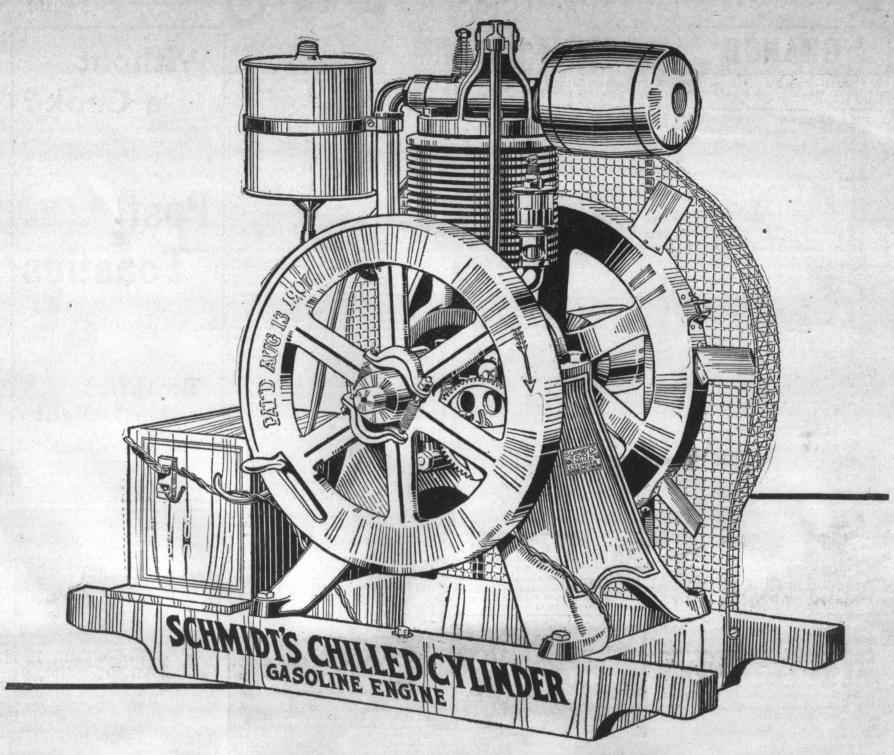
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