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

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FARM NOTES

Restoring Soil Fertility.

Restoring Soil Fertility.

As I have been a subscriber to your valuable paper for some time I should like to tell through its columns what I have observed here on our farms in the past 15 years. Any one passing through this country 15 years ago could not help but say, "what a fine, fertile country this is. See the mammoth stacks of straw, and hay. The land must be good or we would not see such crops of hay and grain." Now let us take a trip through the same country, over the same road, and what do we see? We notice the straw stacks are not more than half as large as they used to be and no large stacks of hay, while the corn does not have that dark green color, and the stalks are shorter and don't bear the ears they did in former years. Now one farmer will say to another farmer, "I don't know what is the matter, I can't get the catch of clover that I used to get." Another farmer will say, "did you ever use any fertilizer? I got a dandy catch on my wheat." Now nearly every farmer is using commercial fertilizer. I know of retilizer and leave a pile of manure behind his barn year after year, and yet he says it pays to buy fertilizer. Now I should like to ask the question of some one who is older and wiser than I, "how is this going to end?" Is it possible that our farms are going to go the same as the farms of the New England states? They raised crops as long as the soil could raise crops and when the fertility was exhausted, deserted their homes and went west, where the land was new, and started over again at robbing the soil. The same condition prevails on thousands of the farms in Virginia and other parts of the sunny south. The fertility of the soil is gone. They baled it with their cotton, barreled it with their sugar and all that is left is a barren waste. Now I don't know anything about commercial fertilizer. It may be all right, but it seems to me that when new land will become exhausted in about 15 years, that it is going to take more than commercial fertilizer to bring it back to where it ought to be.

ought to be. Sanilac Co. B. C. WIGGINS. The above quite accurately describes the condition which exists over a consid- available plant food. erable portion of our agricultural terri-Michigan soils, as a whole, have been robbed of their available fertility in much the same manner as have New and, thanks to modern knowledge of agriculture and better educational facilities, not to the same extent. Mr. Wiggins asks where all this is going to end. We bean expensive lesson, but they will learn, nure returned to the soil, while the min- soil is being built up, and incidentally an first state in the union in the production

better methods. The example of New tion will be before them, for those lands will not long remain barren of useful proof course, than it would have been to conserve their fertility before it was exhausted, but the lands are being sold

cases be supplemented by the application building up process. Already men are being attracted next generation will not see the abanvalues for which they can be purchased plant food, just the same as we use contoday.

Western Michigan Farm Residence, Home of David Steeby, of Allegan County,

soil bacteria. Live stock must be main- a

and the loss falls on the soil robber, as fact that they are confronted by a condiit properly should. The fertility which tion which must be met, rather than with has been taken from them must be partly returned in the form of vegetable matter to make humus, and fertilizers to furnish available plant food. Judicious crop rotations must be established and maintained. Legumes must be grown to furnish humus and nitrogen. Better cultural methods must be practiced to liberate the locked up in the soil. In many cases lime must be applied to correct soil acidity and promote the development of beneficial benefit for which must be maintended in the form of vegetable matter then their farms get into a condition which will make their further cultivation wholly unprofitable. But the best way to remedy this condition is to avoid it by conserving and building up the fertility of our or in drills? My land is new land; this will be the first crop. When should they be harvested, when they begin to ripen or when fully ripe and the leaves off? I suppose the small Navy is the best bean to grow. What yield may one reasonably and promote the development of beneficial be made the main dependence, for such England soils, but not for so long a period latent and unavailable plant food now characterizes the abandoned farms of the e will surely result in disappointlieve it to be a necessary lesson for the tained in proper amounts, and forage ment. They are helpful in securing better most important of the cash crops grown farmers of America to learn. It is also crops grown and fed to them and the ma- yields of crops while the fertility of the by Michigan farmers, Michigan being the

and with increased knowledge will come eral elements of fertility must in many aid in getting a stand of clover in the England's deserted farms is now before of commercial fertilizers. It is not a needed available plant food, but can not them, and the example of their rehabilita- simple problem, but it can be done, is benefit the mechanical condition of the being done and will be done on an ever soil. They do not add an appreciable deincreasing scale, and the farmer of the gree of humus, which is as necessary to a fertile soil as is available plant food. to them who will restore their lost fer- doned farms that are to be found in the They should not be substituted for stable tility and make them again fertile and regions mentioned today, nor will he see manure, but used in connection with it, productive. This will be more expensive, those same lands changing hands at the to balance up the needed elements of centrates high in protein to balance up The same thing is true of Michigan the ration for our live stock. Used in cheaply because they are unproductive, lands. Our farmers will awaken to the this way fertilizers are valuable aids in securing profitable crops and maintaining soil fertility, but to be thus beneficial they must be used intelligently. But the days of better farming are here. Agri-culture is not only "the most noble and most useful occupation of man," but it is at the same time the most interesting, and when a man becomes interested in it from the standpoint of a student, as well as from a business standpoint, he will solve the vexed questions which have not been clearly seen, much less understood, by those who have robbed the abandoned farms of the country of their virgin fer-There are many potent educational forces to help ve in the solution of these problems, which were not available to the farmers of an earlier day, not the least important of which is the agricultural press. But as the problems are solved by individuals in any community, the good work will spread the more rapidly, for there is no educational force so potent as the power of example. This inquirer has grasped the problem, and by solving it in a personal way he can hasten the day when it will cease to be a problem, as can any one of our progressive readers in his own sphere of action.

The Bean Crop.

The bean crop has become one of the



A Good Crop of Alfalfa, Curing Under Hay Caps on the Farm of A. J. Russell, of Manistee Co. This was the Fourth Crop Cut from the Field Since Seeding.

growing in the state, the production of year, but it is probable that more growthis crop was largely confined to the ers get less than 20 bushels than more, high, with an occasional plant or small lighter and poorer soils, and the least However, there is no good reason why complimentary thing that was said of a any farmer with a suitable soil and with ing that winter I manured one acre more. straw is sold from a farm, whether the bean crop was simply made an added erage season, which at present prices crop in the rotation, generally following makes the crop a fairly profitable one. corn instead of summer fallowing as a Of course, for economy in the production preparation for wheat. As a consequence of the crop it should be harvested by the the crops grown were usually small, and special machinery now made for the purwas to deplete it rapidly of humus and is now the general practice where beans available fertility, with the result that it are grown on a commercial scale. became increasingly difficult to get a stand of clover on land where beans were made a regular factor in the crop rotation. This fact brought the bean crop into somewhat general disfavor with the class of farmers whose soil was not the best for wheat or other grains, and they gradually dropped out of bean production. But there were some among them who had learned to give the bean crop a better chance, and the farmers on the heav, ier soils began to grow beans and to profit by the experience of others, until today it is the more common practice to give the bean crop the first place in the crop rotation, plowing a clover sod and fitting a good seed bed for the crop, instead of making it a catch crop or extra crop in the rotation. The result has been larger and more profitable yields and a consequent great increase in the bean production of the state without the ill effects upon the land which characterized the earlier experiences with the crop in Mich-

So far as varieties are concerned, most growers prefer the pea bean, which is classified as a "Navy" on the market, although there has been an increasing acreage of red kidney beans in recent years, and other varieties are grown to a considerable extent on contract for seed houses. As to methods of planting, the rows from 28 to 32 inches apart, using from one-half bushel to three pecks of seed per acre, the last named amount being more commonly used. If the ground well fitted, there will be no serious trouble from weeds in the row, as the beans will come up very quickly and can be cultivated in from one to two weeks from the time of planting, depending upon the weather conditions. As to the best time to plant, most growers prefer to get them in during the first half of weather is apt to be better for securing will not be out of place here. Beans are subject to several fungous diseases, the most destructive of which is called anthracnose. This disease becomes apparent in the rusty condition of the plant, and the appearance of brown spots on the pods, which affect the beans growing in The spores of the disease remain in the bean until the following year, when they grow with the plant and damage the succeeding crop. There is no remedy but to plant clean seed, and in selecting seed beans or buying the seed, care should be taken to get healthy seed if possible, as this is the only available means of preventing loss from anthracnose. In this connection, it may be well to state that the prevailing idea of bean growers that it injures the crop to cultivate the beans while the vines are wet with dew or from a shower has a sound, scientific basis which is directly due to this disease. The spores of this disease are more read. ily spread when the vines are moist, since they adhere to the vines more readily and the conditions are more favorable for their growth through the tissues of the it is present is well founded.

a little differently in different seasons, four times, and getting the ground in good owing to different climatic conditions. But generally the crop should be harvested generally the crop should be harvested such after treating them for smut that they pieces that I have seen were sown with asked by E. L. F. in regard to sorghum before the leaves have fallen, as there would clog the drill. Then, instead of about 1½ bushels of wheat per acre, on grindings as a fertilizer. I wish to say acre is considered a fairly good crop, and good rains. About the time I cut the oats dozen blossoms to the square rod. is said to be about the average yield in we had a very severe drouth which lasted Oceana Co.

"it is too poor to grow good cultural methods should not grow Then in most cases the 20 bushels per acre, or more, in the aveffect of this treatment on the soil pose instead of by hand methods, but this

#### Managing a Poor Field.

Managing a Poor Field.

Will you advise me how to get the best results with a very poor field? I have it rented for five years. One side is a hill with a gravelly loam soil in which there are spots of clay. On the other side it runs down to an elm, ash and cedar swamp, which is drained. One half was to corn. The high land is fall plowed and I expect to sow it to oats and barley and seed with 12 lbs. of alsike and six lbs. of timothy per acre. The other was partly summer fallowed and sowed to rye on Sept. 1. Lots of sheep sorrel and thistles in the field.

Tuscola Co.

H. H. S.

Where one is to have possession of a

Where one is to have possession of a field for but five years, he must plan to improve the soil and get a profit from it at the same time for best results all around. This would appear to be a difficult thing to do, but there is no doubt that in the five-year period proper management will leave the land in better condition than it is now and at the same time return a better profit from it than could be secured if the land were further depleted by poor management. Manifestly, the best thing to do is to get it seeded at the earliest opportunity, as is con-templated. In the writer's opinion it would be better to sow a mixture of June and alsike clover rather than alsike alone with the timothy. Then where the oats and barley are to be sown the use of a light or medium application of a good majority of growers now favor drilling in grain fertilizer, say 200 lbs. per acre, would tend to better the chance of getting a seeding and at the same time pay out in the crop secured. In seeding to either oats or barley on worn land, where has been plowed comparatively early and it is desired to get a seeding of clover it is better to sow the grain rather thinly. This, however does not necessarily mean that a smaller crop will be grown. writer knows of a farmer who sowed but one bushel of oats per acre this year as he intended to seed the land to alfalfa with the oats and desired to get a good stand if possible. He got the stand of June, and if they can be planted during alfalfa and was also surprised in the fact that the oats were the best he had, yieldthe early days of June all the better, as that the oats were the best he had, yield-they will ripen in August when the ing 60 bushels per acre. When a stand of grass is secured it should be mowed only them than if they mature later. A word once, and the sod plowed down for some of caution with regard to the seed used other crop, when by supplementary fertilization good results should be secured. By beginning now it can be again seeded to clover and another cash crop grown within the five-year period, and the land will be gotten into better mechanical condition through the addition of vegetable matter from plowing down the sod. The fact that sorrel is growing rather luxuriantly on this land would indicate that it really needs an application of lime. It is possible that it is in an acid condition and that for this reason it will be difficult to get a stand of clover on it. In this case it would doubtless pay to give it a light application of lime next spring.

### AN EXPERIENCE WITH ALFALFA.

I sowed five acres of alfalfa three years ago next spring, and as it has not yielded as well as I expected, I will, for the benfit of those who are intending to sow it, tell how I managed it. My soil is a sandy loam which always yielded a ton or more of clover hay or 75 to 100 bu, of potatoes, or 60 to 75 crates of corn per acre. It is what I call a good fair piece of land. In Thus, while there would no harm 1906 I cut a crop of clover from it and result from the cultivation of beans when when the second crop was in bloom I fore the seed was sown. This field made "other fellow" do the selling. Keep the The followe field to notatoes. thrachose present, the local that such cut. Planted about 50 good loads acres not manured only 1/2 a ton per turns will exceed the selling value. of manure and spread it on two acres and acre. Each reader can judge for himself Some judgment is required to know just on May 25th I sowed it to oats. After which one of the three methods would be when to harvest the crop, as it will ripen plowing, disking and harrowing three or the most satisfactory. condition, I sowed three pecks of oats would say, sow it the same time you broadcast per acre, as they were so damp would any other clover, but the two best before the leaves have fallen, as there would close the drill and sowed 150 August 10 and 15, about 16 lbs. of seed that I have had experience with them and will be considerable loss from the shattering or shelling of the beans in har-lbs. of good phosphate per acre, then per acre being used on ground that was can say they are excellent. They should vesting if they are allowed to stand too sowed with a hand seeder 15 lbs. of al-vesting if they are allowed to stand too vesting it they are showed to stand too solved with a limit of the ground. The you can, if the wheat is good, cut it as handle very nicely, being different from know of cases in which more than 40 seed came up nicely and when the plants soon as the wheat is ready and save the cornstalks in the fact that they will come bushels per acre have been secured, but were about three inches high, we had the straw to feed. If the wheat is poor cut apart at every joint. I consider sorghum this is very unusual. Twenty bushels per hottest week I ever knew, then had two it for hay as soon as you can find one bagasse one of the best fertilizers I can

of beans. During the early days of bean the best bean sections of the state this four or five weeks. When winter came the alfalfa was from four to six inches bunch that was 12 to 15 inches high. Dur-

> 25, 1909, the two acres that were not He does not realize so much value from it manured stood from 10 to 15 inches high in the money received direct from its and a pale green in color, and the three sale, as he would if he fed to live stock acres that I had manured stood 20 to 24 and sold indirectly in the form of dairy inches high, but of the same light green products or increased value of live stock. color. But all through the piece were little bunches that were of a dark green ers of all farm produced feed consumed, color and no matter whether these bunch- as being sold to them. If hay is fed to es consisted of only one plant or were two milch cows and a record is kept, it will or three yards in extent they were always be found that the cows pay a price over 8 to 10 inches taller than the light green the market valuation and a neat little plants that stood near them, and in one profit besides. It is true that the money place I found one single stalk that was nearly three feet high while those that the total receipts are considered as a stood near were about 20 inches.

> should be so. One neighbor said that I When fed to young stock, the increased had sowed two varieties, but I did not valuation will generally overbalance the think so, for if there had been two varie- selling value of the hay, especially if the ties they would have been more evenly young stock be of first-class breeding. green bunches were the soil was inocu- feeders. In this way a farmer often gets lated with the proper bacteria, and if it ahead financially, while seemingly he is have had twice as much hay as I got. As ready money, but his stock is growing and it was I only got two tons from the five saving him money, and in a few years acres. of the ground inoculated that had been should so plan that all the hay and straw manured, no doubt as a result of the will be used on the farm, and keep stock manuring. I clipped it again in August enough to consume it all. Of course, the but got very little hay and that was more herd will increase from year to year and soil had become inoculated, as these bac- from selling hay and straw. teria multiply and spread rapidly, and this time I got 2,200 lbs. of hay per acre, 20 acres is sold, the cash that would be and on the two acres not manured I got received, especially on a rented farm, may about 500 lbs. per acre. But by this time seem like a big excuse for selling the hay, come inoculated from some source.

> Inoculation Profitable. order to satisfy myself how much it on the farm and more money in it. good inoculation would do, I took two or never grown more than a foot high, and little profit in it after labor is considered. inoculated about two square yards of a high state of fertility and inoculating land owner and that of the tenant. the soil from some good alfalfa field, and

years to do it, as it has in my case. ity, I will say there is a piece of alfalfa more to the value of the land than less than 50 rods from mine on just the manure from the hay and straw. same kind of land and sowed the same while mine made 1% tons, and the two

As to the best time to sow the seed, I

H. K. BRANCH.

KEEP HAY AND STRAW ON THE FARM.

A great mistake is made when hay or When I moved it the first time, June seller be an owner or simply a tenant.

One's stock should be regarded as buyis received in smaller amounts, but when whole, they amount to more than the hay At first I could not understand why this would have sold for in the market.

distributed all over the field. But I af- This is especially true if they are kept terwards learned that where these dark for stock purposes rather than simply had all been inoculated I would easily very short of funds. He may be short of There was perhaps five per cent will represent a snug little sum. weeds than hay. On June 20, 1910, I cut some must be sold. The surplus stock the three acres that had been manured which may be sold every year, will exand at this time about 80 per cent of the ceed any returns that would be possible

When the hay from an acreage of 15 or about 10 per cent of this ground had be- but if the matter is looked at from a feeding and manurial point of view, there will be just as big an excuse for keeping

All the straw may be used by copious three quarts of soil where my alfalfa was bedding. A ton of straw is really worth the best and on a rainy day, (July 12), I more for manure than it is to sell, because selected a place where the alfalfa had it is generally cheap, bulky to handle and

The fertilizer problem is getting to be ground by pressing my spade into the a big one, and could be greatly reduced by ground four or five inches then pushing keeping more stock and selling less hay the handle forward and dropping a small and straw. Manure itself does not make handful of this soil back of the spade, a complete nor a balanced fertilizer, but then pressing the soil back to its place. nevertheless it may be made to solve a I did this about 25 times to the yard of large part of the problem. One should ground, and ten weeks from that day I not attempt to apply enough manure to made a frame one foot square of some supply the complete needs of a crop, bepieces of lath and selected the best place cause it is not economical. Manure does in this inoculated plot and placed this not supply the necessary elements of ferframe down and cut with my knife all the tility in the proper proportion for most alfalfa there was inside of the frame. At soils, and if enough is added to make a this time every plant on this plot was of complete fertilizer, there will be a waste a dark green color and stood six to 10 of a part of the excess elements. Apply inches high and the bundle of grass I got less manure to the area, thu- making it weighed three ounces. I then selected the go farther, and balance it up with combest place I could find at the side of this mercial fertilizer according to the needs plot and cut it in the same way. These of the soil and crop. The value of the plants were from two to six inches tall manure from the hay and straw used on and the bundle weighed just one ounce, the farm is no small item. It keeps the This experiment, and my observation of farm up, and the increased yield and other pieces that have been sown in this quality of the crops possible to produce, neighborhood has thoroughly convinced is one of the biggest arguments in favor me that it is a waste of time to sow al- of keeping all the hay and straw on the falfa without first getting the land into farm, from both the standpoint of the

Sometimes there may be an excuse for I would do this if I had to go 10 miles selling the hay crop if the money is to to get the soil and pay \$10 for a wagon be used for making other improvements load. To be sure, it will become inoculat- on the farm. For instance, if one desires ed from the manure but it will take three to drain part of the farm, and lacks the necessary means or does not feel like Now, in order to show the difference be- going in debt for the improvement, there tween the yield, on land manured as mine may be no objection to selling the hay. was and on land in a high state of fertil- The worth of the drainage would add

It is true that the market must have year that mine was, but which had been hay for horses kept in cities and towns, manured for three years in succession be- but one is taking a wise stand to let the result from the cultivation of beans when when the second and in the spring of 1907 about 3½ tons of hay per acre this year, hay and straw on the farm, feed it, bed it, and use it some

Pennsylvania.

#### SORGHUM GRINDINGS AS A FER-TILIZER.

In your issue of Nov. 26 a question was

Allegan Co.

FARM WAGES VS. CITY PRICES.

thermore if he has no special preparation pletely smothering it, for any special kind of work, he will find himself where he does not want to be. have to take some job where unskilled of killing the quack grass. labor is required. Such work rarely pays more than \$2.00 per day, and furthermore the work is exceedingly irregular. Labor SHOULD THE FARMER LEAVE HIS his loss. troubles and that sort of thing are becoming all the more frequent.

A man on the average farm draws \$25 a month, with his board, room, laundry, sonally acquainted with and the use of a horse once in a while. farmers who at different times left their In the average city he will be lucky if farms and engaged in other business, with he gets board for \$3.50 per week. week will about pay for his laundry. Five so to the detriment of their pecuniary inbut it is altogether unlikely that he will least, to the injury of their health, and get through as cheaply as that for neces- the shortening of their lives. sary expense. That does not include the at least \$2.50 and, generally speaking, all high. Thus, the man who is getting \$25 a month on a farm is really getting a for he must spend more money on clothes and must, as a rule, live in a better way than the working man. Thus the fellow who leaves an excellent chance to till his Yet every year there are thousands \$2,000 "to boot." of bright-minded, capable young men who a general ignorance of conditions in the out any experience in the business, withthat paid him \$70 per month. CLYDE A. WAUGH. Ohio.

### UNSANITARY CLOSETS.

that they can be freely flushed out dur- short time after their return. ing freezing, cold weather. Especially is B. had earned money enough in running ence by the writer.

JOHN JACKSON. Ottawa Co.

### GRASS.

sula Experiment Station, and there learn- seed grain by lantern light in the barn), ed of a simple and inexpensive method he had become the owner of a valuable of killing quack grass by means of smoth- farm, with a fine new house and barn,

The average boy on the farm looks plant with it. The sand vetch is a vine comfort in the evening of his life, he sold longingly toward the man in the city who often growing seven feet in length, that his farm for \$10,000, and moved into the is drawing \$50 a month or better. It falls flat on the ground, forming a dense village to live on his irrome. Every dolthat boy, particularly if he be compelled mat. At first the quack will grow through lar he received for his farm was in the to get out and earn his own living, takes the sand vetch, both in the fall and the bonds of a coal company in Pennsylvania, the ordinary view of the thing, he will following spring, but the vetch soon over- bearing 8 per cent interest, and were forthwith make tracks for the city. Fur- takes and rides down the quack com- quoted in New York at a premium. He

In such a case he will find himself with- has the added advantage of greatly en- and his bonds were as worthle as brown out any special job and as a result will riching the soil while doing a cheap job paper. The loss of everything in his old

> H. B. FULLER. Ogemaw Co.

### LAND?

During a long life I have been per-A the expectation of obtaining easier, and

For the benefit of Michigan Farmer use of a horse or buggy. If he wants to readers I will describe some of these ning a grocery. He may have doubts sport up a little in that way it will cost cases. S. was a mason by trade, and a good one, having worked at bridge buildother amusements will be proportionately ing along the Erie railroad until he had saved money enough to buy a farm in the woods, only partly cleared. better wage than the man in the city who cleared about 75 acres, got the stumps is drawing \$50 or even better. Besides out, and the farm in a good state of culthat he is living under conditions that are tivation; his children had grown up and both physically and morally more healthy engaged in business for themselves, and to the ordinary man. The same thing he was living in comfortable circumstanholds true of the man who is drawing an ces, free of debt. When past sixty years even better wage at some clerical work of age, although a large, stalwart man, still hale and hearty—not bent in the least with age—and able to perform any father's farm for the sake of some Job the farm, and have more ease in his de- a clining years. He traded his farm for a that is not likely to pay him better than house and lot in a small village in the \$100 a month is foolish in more ways than state of New York, and received about

He moved to the village and commenced are doing this very thing. The question keeping a grocery store in competition is, why do they do it? Is it because of with groceries already established. With-The same thing may be said of the out the art of obtaining, and retaining married man who has no capital. On the customers by advertising; with a sharp farm he usually gets \$300 a year, with competition with men of experience and house rent, the use of a garden, the keep in a place where there were already groof a cow and a horse, and usually a flock ceries enough, it is not at all surprising of chickens and perhaps 200 pounds of that he fell behind every year. He was pork. A man that is now working for us temperate in his habits, and economical on such terms, says that at present he is in his expenditures, but in less than ten making more real money that he can lay years he had lost every cent he was away than he did in the city on a job worth, was sold out by the sheriff, and returned to the neighborhood he had left. He said to me when I called to see him at the house of his son-in-law: "I suppose you know we lost all of our property, and now my wife and I are living on It is safe to say that a large majority our children." I said, "They are glad of of the country water closets or outhouses the chance of repaying a part of the debt death a number of years later. are very unsanitary, to say the least, they owe their parents for rearing them And the only wonder is that more sick- to get a start in the world." Like most ness is not caused from this source. Of old people supported by their children, he you have passed middle life. course, it is very difficult to have inside fancied he was a burden. His spirit was water closets in most country dwellings, depressed, hopefulness had fled, my words on account of having them so situated failed to cheer him, and he lived but a

this the case in most old style dwellings a saw-mill and lumbering to buy, and pay built many years ago. If properly con, for, an improved farm. He was a carestructed the outside closet need not be ful, saving, successful farmer, and made far from the house, but, of course, should a little clear money every year, (which is not be very near the well. As cement is about all farmers can expect), and which so cheap, and something that any farmer he devoted to making improvements or can use, a wall about two feet high should his place. Having to go about four miles be built, about six inches thick, under to attend the church to which he bethree sides of the closet. Across the cen longed, and beginning to feel the stiffness ter build another wall the same height. of age in his limbs, he determined to try Back of this wall put in a cement floor some business easier than farming and two or three inches thick. This makes get nearer a church and the convenience but a few minutes-and by the occasional been in business eight or nine years he use of some road dust or ashes, the closet sold out and returned to the neighbormade perfectly sanitary. This is no and nearly half his capital. He moved theory, but the result of years of experi- on a rented farm, but in the excitement. and fatigue of moving, he caught a heavy of this paper and write the manufacturcold, and in a few days died of pneu- ers in this line for descriptive literature monia.

had received a little assistance from home, garments, rugs, etc. and by working like a slave, (sometimes At Chatham I visited the Upper Penin- plowing by moonlight, and threshing

ering it with sand vetch. The sand vetch and was out of debt. When nearly 70 is sown in August without any other years of age, and desirous of taking more supposed he was making a good invest-This method has been tried for two ment, and so did his neighbors, but before years very successfully at Chatham. It a year had passed the coal company failed, age after having worked so hard all his life, so preyed upon his mind that he sickened and died in a few months after

M., an industrious farmer, had begun poor but had become very comfortably situated on a farm of his own. Desirous a number of of making money faster and with less labor, he took a contract for carrying the mail on a stage route, and in pleasant weather usually drove the team himself. room will cost \$1.00 at least, 50 cents per more profitable work; but all of them did He did well at this business and at the end of his contract put his son in charge dollars per week may cover his expenses terests, and three or four of them, at of the farm, and with the money he had saved, moved to town and went into the grocery business. It would seem that every farmer thinks he is capable of runwhether he could handle silks laces and ribbons, but no doubt whatever that he is as competent to weigh out tea, coffee and sugar as anybody in the world. In about three years he came back to the farm, thin, pale, and careworn. He had lost his spare cash, and was thankful that he had not lost the farm. It would only have taken about three more years to sink everything. He lived only a year after his return to the farm. Whether he would have lived longer had he not gone to town, of course we do not know, but he certainly would have experienced fewer kind of farm labor, he decided to leave anxieties of mind, slept sounder, and left larger estate.

G. was a farmer's son who succeeded to his father's farm, and improved it by industry and good management. He took great interest in politics, and was elected sheriff of his county, which made it nec essary to move to the county seat. Party usage did not allow his re-election, and after his term had expired, having become accustomed to the conveniences, sociabilities and allurements of town life, he was unwilling to leave them. He sold the farm, bought a timber lot with a steam saw mill, and went at lumbering. He retained his residence in town, and drove out every day to look after his business. He did not drink, gamble, nor attend a horse race, but hard times came on, (as they do periodically), and lumber, which is the first thing to feel their effects, took a disastrous fall. He had notes in the bank which he could not meet at maturity, and all his struggles to avoid bankruptcy were unavailing. He and his wife then kept a boarding house until his

Moral. Think the problem out carefully before you desert the land, especially if

J. W. INGHAM.

### FUR COATS AND ROBES.

Fur coats are most comfortable wraps for the winter season and are also among the most fashionable garments for outdoor wear. Fur robes are almost a necessity for every farmer who has driving to do during the winter season, while fur rugs and mats are always comfortable and attractive about the house. these are expensive luxuries to city people they are not necessarily so to the farmers who can provide for their needs along this line very cheaply if they will exercise a little forethought and judgment the closet easy to clean out and prevents of a city. He sold his farm for \$6,000 cash in so doing, by simply sending their catall moisture from soaking into the soil to and moved to a Pennsylvania city and tle and horse hides and sheep and any produce bad odors. On the back of the engaged in the grocery business, for which other kind of skins they may have to the closet where there is no wall, a door he had no previous training. He was the tanners who make a specialty of this should be made of boards, fastened so it son-in-law of S., and it seems that the kind of work and whose advertisements can be easily taken out, when necessary failure of his father-in-law in the grocery will be found in the columns of this pato clean out the contents, which should business should have deterred him from per. The hides tanned in such a manner be done two or three times a year. By venturing into it, but it did not. He was and the garments made up to order by cleaning out in this way—which takes more fortunate than S. for after having these manufacturers can be procured by the farmer at a very moderate cost and with just as much satisfaction as though can be kept free from any bad odors and hood he had left, having lost his time, the most expensive goods of this kind were purchased in the manufactured form. Look over the advertising columns and prices as the first step toward secur-ANOTHER WAY OF KILLING QUACK T. was the son of an excellent farmer, ing needed comforts in the way of fur

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what to give father, is easily solved in a sensible, practical manner. Every man who loves his pipe will be just delighted with a pound of Velvet —it will give him two or three months' steady enjoyment. It smokes cool and smooth, and is rich in fragrance It's in a special tin, with a humidor top, which makes a handsome and permanent ornament. There's nothing pleases a man so much as a gift of Velvet, so get it today.

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THE REAL VALUE OF A PEDIGREE.

The amount of emphasis or value to place upon the pedigree is often a vexing problem. The beginner with pure-bred stock, or the man who buys pure-bred sires for grade females is apt to place entirely too much emphasis upon pedigree alone and to discredit individual merit in the animal.

The first value of a pedigree concerns the matter of prepotency. By prepotency is meant the power of the parent either male or female, to impress and leave its qualities and characters upon the off- the herd. spring. Prepotency is just as strong in leaving undesirable characters upon the offspring as it is to leave the desirable ones. An animal who has any certain desirable features and whose parents have the same will possess some probability of impressing those characters upon his offspring. If his ancestors back for several generations have possessed those same characters he is all the more likely to transmit them to his offspring. Thus a pedigree enables a breeder to learn something of the ancestors of his breeding animals. And knowing something about the ancestors he can judge to a considerable extent what kind of offspring he is likely to secure.

The pedigree will show, if one knows the animals in the ancestry or can learn something about them, along what line or toward what type the animal has been bred. Take Shorthorns for an example. If the ancestry has been bred for dairy or dual purpose characteristics, the animal is most likely to breed dual purpose or dairy offspring. On the other hand, if the ancestry since the time of Cruickshank, have been selected for beef making tendencies, the offspring will in the majority of cases possess beef making tendencies. An example of extremes in type in different breeds may be cited. The English Shire horse has been selected for generations and generations for the definite purpose of producing a low down thick, heavy draft horse. The thoroughbred, on the other hand, has been bred for speed and the slender body and rather upstanding qualities that go with speed. As everyone would expect, the Shire will sire colts similar in conformation to himself. This will be true because he has a long line of ancestry back of him that was of a similar type. Likewise the thoroughbred will beget animals of his own general type because that is the kind of breeding back of him. A pedigree, then, enables a man to learn something of the characteristics of the ancestry and to breeder.

In the mating of animals, individual merit should receive first attention and pedigree second. To reverse the order and put pedigree first usually results in disaster. Nearly every breed has suffered by such a practice. There are many owners of pure-bred stock, we dislike to call them breeders, who decide upon mating of males and females entirely from Such men have never their pedigree. accomplished much in live stock improvement. The sooner they can get out of the deep rut of error and will place individual merit first and pedigree a close second, art. the sooner will success crown their efforts.

This practice is wrong because it does not take into consideration the strong or said, "He is the best steer of any age the weak points of the animals. Two might be mated together that possess Whereas each should have been mated with an animal espe- is a ripe beast for his age. In this calf some weakness. that make him prepotent in those desirable Smithfield show in any ordinary year." characters seems to be about the best practice that can be followed.

but prove to be failures as breeders, made by, this calf. He was a grade An-There may be several reasons to account gus, as before noted, sired by Black for that, such as improper care or over- Woodlawn 4288 and out of a good grade feeding for sale or show. Yet, after giv- cow. The date of his birth was Jan. 10, ing all due credit to those causes and 1910. others, it is safe to say that those ani- in April and his preparation began near mals that just "happened" to be out- the close of that month. During the first standingly good ones and which do not days in May he tipped the scales at just

exceptionally good one.

A pedigree in itself does not prove anything in regard to the excellence of the is a further testimonial to the skill of his championship awards were as follows: animal. It merely shows that its ances- feeder that he was never off feed for a tors are of that particular breed. It does not prove nor indicate that the animal in him for this great show. question has any excellence whatsoever. Too many make the mistake of thinking pion fat steer of the show, and the closthat because an animal has a pedigree that he is of superior merit. He may be but the mere fact of his having a pedigree does not prove it. If the animal first has the individual excellence desired, then a blood line as shown by his pedigree that brother of the calf, Roan King, with indicates that he will be a prepotent sire he will be the proper one to select to head pionship honors in 1907; also a half-broth-

Iowa. H. E. McCARTNEY.

#### THE INTERNATIONAL.

(Concluded from last week).

The Grand Champion Fat Steer.

On the opposite page appears a cut issue, there is an interesting bit of hisdevelopment of this calf, which was good enough to win the grand championship in the greatest live stock show in the world from the standpoint of competition. Prof. Kennedy, of the Iowa College, while looking about for material last spring, went to the farm of J. R. Donohoe, of Iowa, to buy a yearling steer to fit for this show. He could not agree with its owner on the price and was about to leave when Mr. Donohoe offered to throw in any two grade calves that he might pick from his herd if he purchased the yearling. . Shamrock II, the winner of the grand championship at the International, was one of the calves picked and taken back to the Iowa Collega along with the yearling. For some time the calf was not given any particular attention, not being considered of extra quality as compared to the herd of fine steers that were improved rapidly and soon gave promise of the capabilities that were in him. He was given one nurse cow until Sept. 1st, when he was given two, and after that time he took the milk of both cows. He was kept in the barn during the day and allowed the run of a grass lot at night. As a grain ration he was given a mixbran and one part oil meal up to Sept. 1st. After Sept. 1st the grain ration was changed to boiled wheat and oats, and he was given green cornstalks and ears, with clover hay and roots for roughage. During the month of November he was eating from nine to eleven pounds per day of the cooked feed, about 25 lbs. per day of roots and five pounds of clover hay in addition to the milk of the two nurse cows

As a testimonial to the feeder's art the herdsman's medal was awarded to John Brown, the feeder who fitted this steer along with fifteen that the college exhibited at the International, not one of which was outside the money in the ture of three parts corn, two parts wheat judge with some degree of accuracy of of the cooked feed, about 25 lbs. per day value of the animal as a future of roots and five pounds of clover hay in

which was outside the money in the classes in which they were shown. When it is considered that they competed with the best that the country affords, Mr. Brown's achievement not only earned for him the medal, but is undisputable evidence that he has mastered the feeder's art.

Regarding the quality of Shamrock II, Richard G. Carden, the noted Irish judge, said, "He is the best steer of any age or any breed ever shown at any show on either side of the water." Speaking further of his quality, Mr. Carden said, "He is a ripe beast for his age. In this calf

cially strong in that particular in order is represented the acme of scientific feedthat the offspring may not possess the ing for beef purposes. He would be a same weakness. Placing individuality of champion in 99 out of 100 shows in the the animal first in importance would se- world. I could not conceive that such a C. lect an animal desirable in itself, then beast exists. Either he or the roan that will was reserve would be champion at the

It will be interesting to cattle feeders to give some detailed statistics with re-Some animals are selected individually gard to the breeding of, and the gains The Iowa College purchased him have animals of similar type and characteristics back of them in their blood lines are in no wise as prepotent as those which have desirable blood lines. Many men who buy males that are most excellent individuals are disappointed in the same of t

happens that the animal in question was lived. These facts show something of good horses throughout the country. moment during the entire time of fitting

A cut of Roan James, the reserve chamest competitor of Shamrock II for the high honor, is also published on the next page. This steer was champion in the yearling class and was bred and fitted by James Leaske, of Ontario. He is a halfwhich Mr. Leaske won the grand chamer of Roan Jim, the steer with which Mr. Leaske won the reserve championship in 1908. All three steers were sired by Gloucester's Choice, a Duchess of Glouster bull. The excellent quality of this steer is plainly to be seen in the cut and was also commented upon by Mr. Carden as above noted. In rendering his final deshowing the grand champion fat steer at cision as between the two, the noted the International. As noted in our last judge gave as his reason for awarding it to the Angus calf, that his flesh was a tory connected with the purchase and trifle firmer than that of the Shorthorn yearling.

While both of these contestants may properly be classed as baby beef yet the fact that the younger animal, who was yet receiving a liberal portion of milk as a part of his daily diet, carried a firmer quality of flesh is a further argument for the feeding of young animals to as early a finish as possible for best results, not alone because of the cheaper gains which can be secured with them but as well because of the superior quality of the finished product.

The Breeding Classes.

This department of the show was certainly an inspiration for any breeder of pure-bred live stock, whether of cattle, sheep or swine. The general average excellence of the entries was superior to that of any other show which it has been the writer's privilege to attend and the being fitted this season. However, he large number in every class made the competition keen and the outcome most interesting. Space will not permit us to describe these exhibits in detail or give a list of prizes awarded other than the grand championships in the several classes, was done in the fat stock classes in the last issue. These championship awards by breeds were as follows:

#### Cattle.

The state of the s

Southdowns, champion ram and ewe, Charles Leet & Sons, Mantua, O.
Shropshire, champion ram and ewe.
Chandler Bros., Chariton, Ia.

The Horse Exhibit.

Never at any similar show were so many have animals of similar type and charac- 345 lbs. After 165 days of feeding he had high class entries in the horse department

results. In such cases it not infrequently lbs. a day for every day that he had to be an inspiration for the breeding of The first in his whole pedigree to be an the possibilities of scientific feeding where can do no more in this issue than to give one is given an animal with perfect dges- the breed championships by classes, as has tion and great power of assimilation. It been done with the other exhibits. The

Belgians.

Stallion.—Bonaparte de Boulant, owned by J. Crouch & Sons, Lafayette, Ind. Reserve Stalion.—Bell Bros., Wooster,

Mare.—Catherina, owned by J. Crouch

Reserve Mare.—Souers & Sons. Percherons.

Percheron, stallion, Helix, owned by Taylor & Jones, Williamsville, Ill. Reserve champion, Interne, owned by McLaughlin Bros., Columbus, O. Champion mare, Iolanthe, owned by H. G. McMillan & Sons, Rock Rapids, Ia. Reserve champion, Humers, owned by J. Crouch & ooin, Humere, owned by J. Crouch & Sons, Lafayette, Ind.

Shires.

Stallion, Dan Patch, and mare Shellford Pride, owned by Truman's Pioneer Stud Farm, Bushnell, Ill.

Clydesdales.

Stallion, Graham Bros., Claremont, Ont., on Mikado. Mare, James Kennedy, Utica, Ill., on Lady Effie.
Clydesdale, champion American-bred stallion, John Leitch, Lafayette, Ind., on Prince William. Mare, J. Kennedy, Utical Prince ca, Ill.

#### BREEDERS' MEETINGS AT THE IN-TERNATIONAL.

Percheron.—The Percheron Society of America met with 180 members present, and proxies to represent 2,207 votes. The secretary's report showed that the society has reorded 1,305 imported stallions, 1,053 imported mares, 2,490 American-bred stallions and 3,313 American-bred mares since Nov. 30, 1909. Officers elected as follows: Pres., H. G. McMillan, treas, J. L. De-Lancey; sec'y, Wayne Dinsmore, Chicago Belgian.—The American Association of

Belgian.—The American Association of Importers and Breeders of Belgian Draft Horses elected Eli Springer, pres.; J. D. Conner, Jr., Wabash, Ind., sec'y-treas.

Shire.—The American Shire Horse Association met with 40 present. The secretary's report showed 1,086 entries received for the past year. The old staff of officers holds over.

Shetland Pony.—The American Shetland Pony Club elected the following officers: Pres., Joel Malmsberry, North Benton, O.; vice-pres., A. J. Lupton, Hartford City, Ind.; see'y-treas., Julia M. Wade, City, Ind.; sec Lafayette, Ind.

Shorthorn.—The American Shorthorn Breeders' Association elected H. C. Duncan, Osborn, Mo.; H. F. Brown, Minneapolls, Minn.; J. Hovenkamp, Fort Worth, Texas, and J. F. Prather, Williamsville, Ill., as board of directors. The old staff of officers holds over.

of officers holds over.

Aberdeen-Angus.—The American Aberdeen-Angus Breeders' Association held an enthusiastic meeting. The secretary's report showed 16,818 entries made during the past year, 12 being of imported animals. The total number of animals recorded is now 141,992. The election of officers resulted as follows: Pres., A. C. Binnie, Alta, Ia.; vice-pres., Stanley R. Pierce, Wabash, Ind.; sec'y., Chas. Gray Chicago; treas., C. J. Martin, Churdan, Iowa.

Rambouillet.-The Rambouillet Rambouillet.—The Rambouillet Sheep Breeders' Association met and elected the following officers: Pres., R. A. Jackson, Dayton, Wash.; vice-pres., F. S. King, Laramie, Wyo.; sec'y., Dwight Lincoln, Milford Center, O.; treas, R. M. Wood, Saline, Mich.

Oxford.—The American Oxford Down Record Association elected officers as follows: Pres., R. J. Stone, Stonington, Ill.; vice-pres., I. R. Waterbury, Highland, Mich.; sec'y-treas., W. A. Shafor, Hamilton, O.

Hampshire—The Hampshire Breeders'

Hampshire.—The Hampshire Breeders' Association elected officers as follows: Pres., M. C. Ring, Millville, Wis.; sec'ytreas., C. A. Tyler, Coldwater, Mich.

treas., C. A. Tyler, Coldwater, Mich.
Shropshire.—The American Shropshire
Assocation met at Lafayette, Ind., and
elected the following officers: Pres., J.
C. Duncan, New York; vice-pres., G.
Howard Davison, New York; sec'y-treas.,
Miss J. M. Wade, Lafayette, Ind. A
proxy vote controlled the meeting. It
displaced Mr. E. L. Troeger who had recently been elected secretary.

Dorset.—The Continental Dorset Club

Lincoin.—The American Lincoin Sneep Breeders' Association met and elected Richard Shier, Marlette, Mich., pres.; J. T. Gibson. Denfield. Ont., vice-pres.; Bert Smith, Charlotte, Mich., sec'y-treas.

Poland-China.—The American Poland-China Record Association met, with 16 states represented. J. M. Stewart, Ainsworth, Ia., was elected pres.; Y. L. Mc-Fadden, sec'y., and J. W. Blackford, treasurer.

Yorkshire.—The American Yorkshire Club elected Thomas H. Canfield, Sale

Club elected Thomas H. Canfield, Sale Park, Minn.; B. T. Davidson, Menlo, Ia., and Prof. W. B. Richards, North Dakota Agricultural College, as board of directors. The old officers held over.

are somewhat to blame.

we would like to give a little advice to made your selection for this season be- is injurious and often causes a bad cough. those who will want to buy a ram next fore this and may be well pleased or may wish you could have found something Of course, this may look a little selfish a little different. In either case, be sure but then, most advice is, and it looks to you start early enough next year and as to any other animal. us as if many buyers blame the breeders with a fixed idea of what you want in for conditions for which they themselves your mind. We would advise looking for a blocky sheep of medium size. Remem-Everyone who has handled sale rams ber, that long legs do not necessarily knows how difficult it is to run a large make a big sheep. Air under a sheep flock of rams in the pasture after Sept. 1, does not help much in making him weigh. without a great deal of annoyance and Be sure he has a short, broad head with loss. If none of them are actually killed, a broad nose, especially over the nostril; (which quite often occurs), their head cov. the neck should be thick and firm, the ering is so badly worn off that their ap- back level and broad; a broad back and pearance is greatly marred, so it is quite well sprung ribs go together; the legs customary to shut them in a barn away should be well apart and have plenty of

Shamrock II. Grand Champion Fat Steer at the International for 1910.

other much harm.

dition to ship, being on dry feed, than mentioned. A good ram always has a en to this phase with swine feeding than they would be if just off from grass. It proud look and a commanding appearwould therefore seem good policy for the ance. buyer to make his selection early; he on pasture and keep him in better condition to breed the flock when mating treat him accordingly. time comes, but some one will say, "rams are so much bother, I don't want them around before I wish to turn them with the ewes." If an old ewe or a few wether lambs are turned with them and they are in the best of shape for service when hog receives less protection from his coat given an even chance at the feed. wanted.

It is strange how many buyers will come to the barn and say they don't want a ram that has been fed up, and then pick the fattest one in the bunch. breeder of fancy sheep finds it almost impossible to sell a ram thin in flesh.

Again, the buyer will say he had rather see them in the rough, but if one sheep that has been carefully trimmed is put with a dozen that have not, other things being equal, he will be the first one selected.

A great many buyers will write for prices and after two or three weeks will write again and will feel quite hurt to find that the one they had selected had been sold in the meantime. It would seem good policy, therefore, not only to select your stock ram early, but if possible, to inspect and choose him yourself; but if you are obliged to buy by correspondence deal with a breeder that you can trust: not the one that makes most glowing description in his advertisement or letter, but, of course, it would be best not to expect any one to send a \$50 ram for \$10 or \$15. Be willing to pay a fair price and then insist on getting your money's worth. Remember that the breeder has a great many expenses which are not generally thought of. He pays high prices for his foundation stock, his stock rams cost him three or four of hair than does any other farm animal. to pay; he has advertising expenses, is details, answering correspondence or til they are injured thereby. The quar- standpoint.

that they are prevented from doing each This depends entirely on the breed of sheep you are handling, but I am never Then, too, if they are sold to be de- afraid of getting too much wool, if I do livered by express they are in better con- not get it at the expense of the qualities of an appetizing form. Less heed is giv-

would not only be enabled thereby to has good care, plenty to eat, and don't will respond surprisingly to any increased make his choice before the best ones had oblige him to run in the hog pasture, attention in this respect. been selected, but could get his ram again Remember, the ram is half the flock so far as the lamb crop is concerned, and lies in the fact that pigs of different sizes

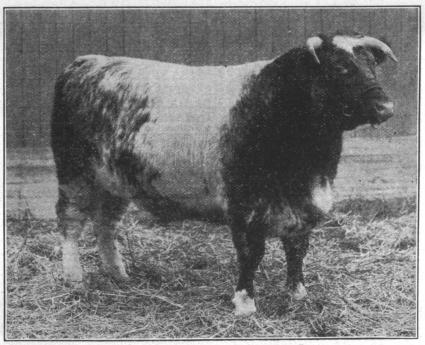
Ionia Co.

### WINTER CARE OF THE HOGS.

Lack of proper shelter frequently causes put in a pasture remote from the ewe unthriftiness. Hogs need rather warm lots in each of which will be pigs very sim flock, they are no bother at all and are quarters. It is an evident fact that the ilar in size. In this way each pig will be

from other sheep in quarters so limited bone. I have said nothing as to wool.

H. E. POWELL.



Roan James, Reserve Champion Fat Steer at the International

Hog raising, like everything else, in the times what the ordinary farmer is willing For that reason warmer shelter is re- stock line, has its many little details that quired. When shelter that is sufficiently must be met as they come up. On the obliged to belong to recording associations warm and comfortable is not given, the whole, however, hogs can probably be and is to quite an expense keeping hogs pile up and are likely to injure each cared for more easily than any other class his stock recorded. And then, too, he other by their weight or else they heat of stock. Certainly there is no other spends a good deal of time looking after the ones in the lower part of the pile un- stock so profitable from the financial H. E. MCCARTNEY.

THOUGHTS ON BUYING THE STOCK showing his stock to people who may or ters should be free from dust, and well may not buy, so be willing to pay a good bedded. If there is dust on the floor the Every year as we are closing up our Now, a few words as to the best sort and will draw the dust and the interram trade for the season we feel as if of a ram to buy. You no doubt have mixed filth directly into his lungs, which Of course, while the quarters are to be warm, they are to be well ventilated. Fresh air is just as essential to the hog

> Protection in the yard is not given as much attention as it deserves. The hog is most comfortable when lying on the sunny side of a building on a bright winter day. Yet the hog always avoids the wind. If some protection such as a solid board fence or straw wall that sheep men use could be provided, it undoubtedly would add greatly to the comfort and fattening ability of the hog. Then, the feeding floor needs protection, for if it is not the hog will not stay out of the shed on cold days long enough to get the proper amount of feed.

Hogs often fail to get a sufficient amount of water during the winter time. It often happens that the only drinking place is an open trough near the main stock tank. Here the water may be dipped out ice cold and poured into a trough that is heavily coated with ice. Under such circumstances the hog will not drink one-third as much as he requires or would drink under more favorable surroundings. When one stops to think about the matter it is plain that the hog needs just as much water during the winter as in summer to properly carry on the digestive and other functions. If he does not get that proper amount of water his system cannot do its work properly and his general thrift will suffer as a consequence. Just how to meet this problem and to supply plenty of good water at all times is a problem to be worked out on every farm. Wherever the tank heater is used, and it should be used in every outside tank, the difficulty may be overcome. In some cases it is possible to have an inside tank so arranged that i will not freeze at all. Regularity in feeding has much to do

with keeping up the thrift of the bunch. Of course, in sections where there is much had weather provision will need to be made for inside feeding or else to have a very well protected feeding floor.

The feed should be served in something with any other class of stock. It is quite true that hogs have not such dainty ap-And after you have him, be sure he petites as sheep, for instance, yet they

Another cause of feed lot unthriftiness are run in the same lot. In such cases the small ones are crowded back from the trough and prevented from getting their rightful proportion of the feed. Where the pigs differ in size the most successful plan is to divide them into two or more



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## VETERINARY

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; Initials only will be published. Many queries are answered that apply to the same ailments. If this column is watched carefully you will probably find the desired information in a reply that has been made to some one else. When reply by mail is requested, it becomes private practice, and a fee of \$1.00 must accompany the letter.

Cough—Indigestion—Piles.—I have a pair of horses that are out of condition; the mare is perhaps in foal, but she is old. The gelding is also old and very thin; is coughing some but not as bad as he was some time ago. My three-monthold pigs are troubled with piles, the kind which protrudes, and are inclined to keep raw. P. H. R., Oak Grove, Mich.—You had better inspect their teeth and if you find them sharp and uneven float the points off the outside of upper rows and inside of lower. Give each horse a table-spoonful of the following compound powder at a dose in feed three times daily: Gentian, ginger, and bicarbonate of soda, equal parts by weight and mixed thoroughly. Perhaps they should be better fed. Your pigs will be benefited by giving them 5 drops fluid extract belladonna and 1 gr. quinine at a dose two or three times a day.

gr. quinine at a dose two or three times a day.

Diarrhoea — Worms. — My 17-year-old mare has been troubled for some time with a looseness of the bowels and I would like to know what drugs she needs. I thought it might interest your readers to know that I lost a colt, and no doubt his death was the result of worms. I have been told that worms never cause the death of colts; is this true? G. C., Libby, Mich.—Give her a teaspoonful of sulphate of iron and two tablespoonfuls ground ginger at a dose in feed two or three times a day. I have examined many hundreds of horses and other animals that worms killed. When horses and other live stock show symptoms of worms they should be treated. However, well horses should not be doped with drugs.

Skin Blotches.—I have a horse that is

live stock snow symptoms of worms they should be treated. However, well horses should not be doped with drugs.

Skin Blotches.—I have a horse that is troubled with some sort of a skin trouble affecting one side more than the other. There are several large blotches and the hair drops out, leaving the parts bald and I would like to know how to cure him. J. R. S., Croswell, Mich.—Apply one part iodine and ten parts vaseline once a day, also give 2 drs. Donovan's solution at a dose in feed three times a day.

Constipation.—I have a six-year-old horse that is inclined to be costive and he has been in this condition all his life, therefore I should like to know what to do. G. S., Summit City, Mich.—Have his teeth put in good condition to masticate food properly. Feed well salted bran mashes, plenty of roots and silage. Give either aloes or raw linseed oil only when necessary, also keep in mind that dally exercise and a liberal allowance of water help the bowels to move. Give 1 dr. of ground nux vomica and a handful of oil meal at a dose two or three times a day. Blood Poison.—One of my cows came fresh three weeks ago. Since then she has had some vaginal discharge, has not had a good appetite and is quite thin. Our local Vet. has been treating her and she seems to be improving. F. H. M., Grand Ledge, Mich.—Dissolve 1 dr. permanganate of potash in one gallon of tepid water and wash out vagina through a small rubber tube dally and give her a teapoonful of sulphate of iron and two tablespoonfuls hyposulphite of soda at a dose twice or three times a day. Increase her food supply.

Cow Fails to Breed.—I have a cow seven or eight years old that had a calf 15 to the fails to get with

dose twice or three times a day. Increase her food supply.

Cow Fails to Breed.—I have a cow seven or eight years old that had a calf 15 months ago and she fails to get with calf. She has been mated a dozen or more times. L. W. U., Adrian, Mich.—Dissolve ¼ lb. cooking soda in one gallon tepid water and flush out vagina daily. Wart.—A yearling heifer has a warty growth on shoulder and a few smaller warts on different parts of body which I should like to have removed. S. W. B., Swartz Creek, Mich.—Apply acetic acid and if not convenient to do so apply vinegar daily.

Ophthalmia.—Some time ago one of my sheep went blind and I notice another is almost blind, but all my sheep seem to be in good health.—E. O. W., Concord, Mich.—Separate the healthy and diseased and blow some calomel into their sore eyes once a day.

Grub in the Head.—I enclose a grub in

blow some calomel into their sore eyes once a day.

Grub in the Head.—I enclose a grub in my letter which I presume you know all about. I found it on the end of my sheep's nose and suppose there are lots of them in the nostrils. W. H. C., Gaines, Mich.—Grub in the head of sheep are the larva of a small gadfly which deposits its live embryo on the margin of the nostrils. It passes up the nasal cavities and nests just below the eyes. Place the sheep in a warm building and blow some scotch snuff up the nostrils and feed the sheep well.

Well.

Weak Stomach.—I have a dog that must have a weak stomach, for he soon vomits up what he eats. A. G. R., Holland, Mich.—Give the dog four or five tablespoonfuls black coffee, and it should be warm. Also give 5 grs. bicarbonate of soda at a dose in feed twice or three times a day. Some well cooked meat might not hurt him.

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### LIVE STOCK NOTES.

THE MICHIGA

Toppid Liver—Constipation—I have a coit 15 months old that appears to be arowing the control of th

### BREED SALES AT THE INTERNA-

LIVE STOCK NOTES.

William Lamprecht, of Nebraska, a prominent farmer and stock feeder, says that he has seen few seasons when there was less sickness among bornal to the state of the seasons when there was less sickness among bornal to the weather having been fine, so that hose have had dry places to sleep in. They have not been subjected to cold, wet days, which are so likely to produce sickness. Mr. Lamprecht states that the country around Bloomfield is pretty well as to numbers and weights. He says that cattle on feed are about the same in numbers and shout the same in numbers and shout the same in numbers and shout the same in numbers and there has been at tremers did not get a third of their usual hay crop, this forcing from the visual hay crop, this forcing from the visual hay crop, this forcing them to utilize all the roughage their farms produced, pretty well demonstrated recently that the big Chicago packers are in a position to put hogs much lower, and there has been at tremendous fall in values since the downward movement started, but the wisdom of a further break is doubted. Thousands of farmers who arfeeding young hogs are watching market developments, uncertain as to whether to confliume feeding or to market their stock greatly needs a largey oung hogs are watching market developments, uncertain as to whether to confliume feeding or to market their stock greatly needs a largey increased supply of matured hogs, and owners should be encouraged to feed their swine to market their stock greatly needs a largey to make the stock of the state o

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When writing to Advrtisers mention the Michigan Farmer.

THE MENACE OF BEE DISEASES.

For some time the Department of Agriculture, at Washington, has been investigating a class of bee diseases which appears to be steadily gaining ground in many of the leading honey-producing states. The diseases referred to are the considerable thought it we are to several varieties of foul brood, and the during the cold months. We all know In poultry, as well as live stock of all several varieties of foul brood, and the during the cold months. We all know In poultry, as well as live stock of all investigation developed the fact that they there are lots of farmers who make no kinds, I have always been a stickler for investigation developed the fact that they had been effort whatever to get eggs in winter pure breeds and, in general, have thought anticipated, and this in the face of the when eggs are worth double what they the policy of crossing questionable, to say fact that in a number of states laws de- are in the spring, and that a little intel- the least. This I still believe to be true signed to keep these diseases under con- ligent effort at this time would mean in the main but there are exceptions trol have been in force for some years. money in their pockets. In Michigan a law providing for the inspection of apiaries has been in existence best method of feeding for winter eggs. the end that the spread of foul brood in this state may be prevented.

The results of the investigation made up to the present time. by the Department of Agriculture, together with all essential information or about the time the fowls leave the problem and a point not to be ignored. bearing on these diseases and their treat- roosts, three quarts of whole corn for ment, will be given to the public in a each 60 pullets, and at 10 to 10:30 o'clock, chiefly along the line of egg production, bulletin which should prove of extraordi- the same quantity of white oats. This nary interest and value to bee-keepers grain is all fed in litter of oat straw everywhere. A press notice of the forth- which is six to eight inches deep on the coming bulletin, which was issued by floors. the Department last week, says:

in 37 states, and European foul brood in put on too much fat. 160 counties in 24 states, and it is convalue of the colonies which die, and the excellent green feed. approximate loss of crop due to the weakworse, unless active measures are taken to control the diseases. Furthermore, the distribution of these diseases is by no means fully known, and they are constantly spreading.

specific bacterium, and enough is known brood, which is also a bacterial disease, to make it possible to issue reliable recommendations concerning treatment for both diseases. Both attack the developold age or other causes the colony becomes depleted, since there are not enough young bees emerging to keep up the numbers. When the colony, becomes weak, bees from other colonies enter to rob the honey and the infection is spread.

Both of these diseases can be controlled with comparative ease by the progressive bee-keeper, but the chief difficulty encountered in combating these diseases is the fact that the majority of beekeepers are unaware that such diseases exist; they therefore often attribute their lesses to other sources, and nothing is done to prevent the spread of the infection. It is therefore necessary in most ries for disease, and the bee-keepers in ing out publications to bee-keepers in in- cut out or greatly reduce the quantity of and in a future article I hope to have fected regions, by examining samples of any other starchy food that may now something to say regarding some of them. brood suspected of disease, and by send- have a place in the ration, and give your

ence of disease, so that bee-keepers will green, cut bone, following directions givbe informed that their apiaries are in en in recent issues of The Farmer in danger. The co-operation of agricultural feeding these foods. They should also colleges, state bee-keepers' associations, have access to a liberal supply of finely and other similar agencies is also being crushed oyster shells. If the fowls' legs urged.

A TRIED SYSTEM OF FEEDING FOR which case put in a warm, dry place and EGGS.

The feeding question is deserving of The diseases referred to are the considerable thought if we are to get eggs

I do not know that there is any one Department being charged with the sup- advocated, and no doubt all of them have ervision of the inspection work. Only re- their good points. I like the method reccently the co-operation of individual bee- ommended by the Maine experiment staent.

I feed in the morning, just at daylight, ately hidden in the straw, it is a pleasing not in a class with the former. The single The honey bee annually produces a crop sight to watch the pullets at work digging of honey valued at around \$20,000,000, and for the grains. This exercise starts their there are vast opportunities for increasing blood circulating, warming them up for all in all, the most profitable as an egg this output. The most serious handicap the day, and is in my opinion a more ra. producer. The oft-repeated objection of to bee-keeping in the United States is the tional way of accomplishing this end than their wild nature I believe rests with the fact that there are contagious diseases stuffing their crops with a warm mash care-taker as much as with the hen. They which attack the brood of the honey bee. which tends to induce idleness. The sec-There are now recognized two such dis- ond feeding might be made half wheat tural and the best possible indication of eases, known as American foul brood and and half oats, or a portion of corn might their business qualifications." Naturally European foul brood. From data recently be put in for cold weather feeding. A obtained by the United States Depart- grain ration composed of two-thirds corn ment of Agriculture, it is known that is all right for cold weather, but more American foul brood exists in 282 counties than this will be apt to make the hens

servatively estimated that these diseases feed has been provided-cabbages, man-sometimes be profitably done. For inare causing a loss to the bee-keepers of gels, etc. A good-sized head of cabbage the country of at least \$1,000,000 annually. hung in a pen will last 60 pullets from This estimate is based on the probable one noon to the next, and it makes an

The above is all the regular feeding my ened condition of diseased colonies. The chickens get. I keep in each pen a hopstates in which the diseases are most per filled with a ground grain mixture, prevalent are California, Colorado, Illinois, composed of 2 parts grain, 1 part mid-Indiana, Iowa, Kansas, Michigan, Mis-dlings, 1 part corn meal, 1 part gluten souri, Nebraska, New Jersey, New York, meal, and ½ part old process meal, by Ohio, Pennsylvania, Texas and Wisconsin, weight. Beef scrap is kept before them and it is unfortunate that these are the in a hopper, all the time, also mealed alstates in which honey production is most falfa, the latter proving an excellent profitable, making the futur outlook of green feed. Then they always have grit, the bee-keeping industry so much the cyster shell and charcoal. Fresh water, with the chill removed, is given the first thing mornings, and renewed at noon during freezing weather.

I was a trifle skeptical when trying out this method of feeding, as it had always The cause of American foul broad has been my pet theory that fowls should been found by the Department to be a have their crops filled with corn at night, but results have been exceedingly good of the cause and nature of European foul and I find that they never go to roost with empty crops. They work like beavers all day in the litter, and have the dry mash to supplement their grain. They do not gorge themselves on the dry mash ing brood, and as the adult bees die from as might be supposed. While they like it. they seem to like the hard grains better.

This system can be varied to suit conditions. For instance, the morning feed can be thrown in the litter at night after the fowls have gone to roost. This would save the attendant getting out so early in the morning. The mid-morning feed might be fed at noon, thus saving one I trap-nest the layers and consequently am obliged to visit the pens frequently anyway. A. N. DEAN.

Oakland Co.

### CHICKENS HAVE LEG WEAKNESS.

A Branch Co, subscriber writes that are only a few cases it is possible that purpose. other states are asking for the same pro- the condition is due to the fowls injuring tection, so that careless or ignorant bee- themselves in some way. Otherwise it is keepers can be prevented from endanger- either rheumatism or the result of iming their neighbors' bees. This inspection proper feeding, most likely the latter. is a benefit in the spread of information An excess of starchy foods coupled with concerning disease, in so far as the in- a lack of foods that are strong in min- might be written of the wrecks along the spectors can cover the territory. The De- eral or ash constituents will produce way. Many factors enter into the probpartment is helping in this work by send- this result. Reduce the grain allowance, lems of breeding, feeding, marketing, etc.,

ing out information concerning the pres- chickens some meat scraps and a little are feverish and inclined to swell at the joints the trouble may be rheumatism, in rub the legs with carbolated vaseline.

#### PURE VS. MIXED BREEDS.

which, under certain conditions, may be profitably followed. Personally, I have always been more interested in egg prosince 1901, the State Dairy and Food There are numberless different systems duction than in raising poultry for the market, and this leads naturally to the question of the best breeds for either purpose. Nearly every poultry raiser, whethkeepers was urged by this department, to tion and follow it as closely as consist- er in the business for pleasure or profit, It has given me remarkably satis- has his choice of breeds and in nine cases factory results from my White Leghorns out of ten, he will succeed better with his favorite than with any other. So preference often becomes a patent factor in the

> As state above, my work has been and naturally my preferences have been for the Mediterranean breeds. I have considerable to do with the Asiatic and As most of the grain is immedi- the Rock breeds, but for layers these are comb Brown Leghorn, as an all-seasons' laver is the best I have ever tried and, are nervous I admit, but that is only nawe do not look for very great layers in hens that have to be put onto the perch at night.

A Case of Advantageous Crossing.

But I started to say something of cross-At noon I give them whatever green ing breeds and wherein I thought it might stance, I have depended more upon natural mothers than incubators, and for this purpose I have to go cutside of my favorite breed to find the sitters. Occasionally I have found a Brown Leghorn that would take a notion to sit and hold down her job; but they are not dependable, so I have always sought elsewhere for help in this line. I have usually chosen Plymouth Rocks for this work, as they usually carry their undertakings, in this line at least, through to a finish. This induced me to try the expedient of crossing a pure Brown Leghorn cock upon pure Barred Rock hens for the purpose of getting sitters and to produce a heavier fowl for table use. The experiment, although successful as to both points, produced a mixty-maxty motley group, for I had everything that one could desire Among the males, to the casual observer there were excellent types of Plymouth Rocks and others closely resembling Silver Laced Wyandottes. These were all of good size and, as table fowls, superior to any of the large breeds I have ever test-Among the pullets I had from coal ed. black through various colors to those seemingly almost pure Leghorn. Among these were almost persistent layers, while others were just as fully given over to sitting.

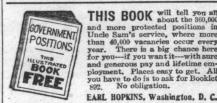
So by the crossing I secured the three classes: sitters, layers and table fowls: While for family purposes this was successful for the purpose described, the ting eggs for hatching, it would not pay, in fact, would be an unwise undertaking. While I have found this plan quite sucmixture is allowed to only a certain extent. The fowls are not kept separate but allowed to run together promiscuously. However, I am not troubled with crossing farther than is desired as no d Brown cases to point out the existence and na. her chickens have weak legs, staggering horns are kept during the hatching seature of the diseases, as well as to spread and even falling down when trying to son, and the eggs of the crossbred hens information concerning the best methods walk. The fowls are Brown Leghorns, a are yellow while the Brown Leghorn are of treatment. Several states have passed breed in which this trouble is not so white. I would not recommend the plan laws providing for the inspection of apia- common as in the heavier kinds. If there for general use but only for a special

I have learned some of the ups and downs of poultry raising and, I believe have solved some of the problems involved. There are profits in the business but, on the other hand, whole chapters

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#### WHITE HOLLAND TURKEYS.

White Holland turkeys are supposed to have originated in Holland, from which country they have inherited their name. This is disputed by some modern writers. Certain it is that the White Hollands of this country are much larger and finer turkeys than those of Holland, which has been brought about, perhaps, by a dash of blood from white sports from the Bronze. The Standard calls for hens weighing 18 lbs. and toms 26 lbs. Many breeders have raised these weights to 24 and 40 lbs. respectively.

In sections where farms are small and crowded closely together, the White Hollands are especially adapted to the situation. They are much more domestice the Bronze. They usually make their nests in, or close around the farm buildings, and are excellent mothers during the incubation season, being quiet and easily handled. When the poults are hatched they readily take to the fields, never loafing about the barnyard, and yet nearly always keeping within sight. With but little attention they are always at home at night. They are hardy and quick growers, and excellent layers. One of my yearling hens laid 50 eggs this season, besides hatching a brood of 24 poults from 25 eggs.

A flock of pure White Hollands, with their red heads and pink legs, is certainly a pretty sight, and a benefit to any farm as well as to the farmer's pocketbook.

Ohio.

#### SELECTING BREEDERS FOR THE COMING YEAR.

J. F. FETTER.

In selecting breeders for a farm flock I would advise the buying of pure-bred fowls, but it is not well to lose sight of the fact that general utility points should be the first consideration. The returns as regards meat and egg production will be most satisfactory from breeding stock that is strong and vigorous, even though they may not be as perfectly feathered.

Many flocks of excellent general-purpose fowls have been ruined by the introduction of male birds from some fancier who has bred and developed fowls that were beautifully feathered but lacking in vigor and vitality as well as compactness. These males reduced the meat and egg production of the flocks. Their descendants were finely feathered but lacked in most other qualities that go to make up a good general utility fowl.

In buying male birds therefore great care should be used in selecting them. Get them of a breeder who gives attention to utility points. This is easily possible, as there are many breeders of poultry who keep this in view while developing their flocks. On the other hand, where a general-purpose flock is desired, there danger in buying fowls from a flock that has been too highly bred and developed along meat or egg producing lines alone.

New York. W. MILTON KELLY.

### MICHIGAN POULTRY SHOWS.

Dates thus far claimed by the various poultry organizations throughout the state, far as we have been able to obtain

them, are as follows:
Holland, Ottawa Co., Dec. 15-21.
Salem, Washtenaw Co., Dec. 20-23.
Lansing, Central Michigan Poultry Association, Dec. 26-31. Salem, Washtenaw Co., Dec. Lansing, Central Michigan Poultry Association, Dec. 26-31.
Vicksburg, Kalamazoo Co., Dec. 28-

Vicksburg, Kalamas, Jan. 1.

Jan. 1.

Jackson, Jackson Co., Dec. 31-Jan. 5.

Grand Ledge, Eaton Co., Jan. 2-7.

Manistee, Manistee Co., Jan. 12-15.

Kalamazoo, Kalamazoo Co., Jan. 10-14.

Bay City, Bay Co., Jan. 23-28.

Detroit, State Poultry Assn., Jan. 25-

Sturgis, St. Joseph Co., Feb. 1-6.

### BOOK NOTICES.

Dumb Animals and How to Treat them. By E. K. Whitehead, of the Colorado Bureau of Child and Animal Protection. The work is made up of sensible reading, wise suggestions, many questions and observations. It is a work for the teacher, for the home, and for class use in fourth

servations. It is a work for the teacher, for the home, and for class use in fourth and upper grades. Illustrated, 144 pages, Cloth. Price, 50c. A. Flanagan Company, Chicago.

Nature Study for Higher Grammar Grades. By Horace H. Cummings, B. S., formerly Supervisor of Nature Study, State Normal School, University of Utah, The subjects treated cover a wide range of observation and experience, and an effort is made, in the eighth grade, especially, to develop the uses and methods of classifying knowledge. Cloth, 12mo, 274 pages, with Illustrations. Price, 75c. American Book Company.

Practical Algebra—First Year Course. By Jos. V. Collins, Ph. D., Professor of Mathematics, State Normal School, Stevens Point, Wis. An extremely simple book for first year courses, omitting unessential, and treating everything essential. Cloth. 12mo, 301 pages. Price, 85c. American Book Company.

In addition to the offers on other pages.

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Detroit, Michigan.

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Kimball's Dair	tuffalo, N. Y. (W) cago, (m) Indianapolis, Ind. (W y Farmer, Waterioc	111	00	1	60	0 1	60
Ia. (s-m) Poultry Keeper,	Quincy, Ill. (m)		50	li	0.8		85 35
Poultry Success, Reliable Poultry	Quincy, Ill. (m) Springfield, O. (m) Journal, Quincy, Ill. (n Journal, Indianapolis	i	50	1	05	5	40 35
тиа. (в-ш)		1	50	1	05		35
Popular		1		1		i	
Etude Philadelr	zine, (m)	1	50	1	70		95
Hampton's Mag	zine, (m).  bila, Ps. (m).  azlue, N. Y. (m).  agazine, N. Y. (m).  st Grand. Rapids (m).  zine, N. Y. (m).  n. Mass. (m).  y. N. Y. (m).  ine, New York (m).  zine, New York (m).  zine, Chicago, Ili. (m).	1	50	1	75	1	10
Mechanical Dige	est Grand, Rapids (m	1	50	1	90		25
Musician Rosto	n. Mass. (m)	1	50	1	80		50
Outing Magazine	N. Y. (m)	3	00	3	15	3	(0)
People's Home J	ournal, N. Y. (m)		50	1	00		30
Red Book Magaz	zine, Chicago, Ill. (m)	1	50	2	50 05		50 25
Success, N. Y. (1	m)	1	00	ī	50		80
						1	go
Everyday Ho	(m)usekeeping, Salem,		75	1	30		60
Harper's Bazar.	N. Y. (m)	1	50 00		75	1	35 00
Housewife, N. Y McCall's Magazin	usekeeping, Salem, N. Y. (m)	-	35 50	1			40
Mother's Mag., E Modern Prescilla,	Boston, Mass (m)	1	50 75	1	10 30		50 60
Pictorial Review Woman's Home	N. Y. (m) Companion, N. Y	1	00 50	1	50 80		80 :
	and Juvenile.					1	
American Boy, Little Folks, Sales Sunday School	Times, Philadelphia.	1	00	1	433	1	75 00
Pa. (w) Young People's V	Veekly, Elgin, Ill. (w)	1	00 75	1	55		85 75

(w-weekly; m-monthly; s-m-semi-monthly.)

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due notice is started.

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The Lawrence Pub. Co.,

Detroit, Mich.

### DETROIT, DEC. 17, 1910.

#### CURRENT COMMENT.

The annual report of the Secretary of Ag-Secretary Wilson's riculture is always Report. anticipated with a

great deal of interest by business men as well as farmers, owing to the fact that it is an index to the prosperity of the Secretary Wilson's report for the current year, which was made public December 8, was anticipated more eagerly than any similar document in recent years for the reason that business conditions in the country are somewhat unsettled and because men who are generally recognized as authorities on business conditions have been making pessimistic prophecies regarding the future. But so far as the financial prosperity of our basic industry is concerned, this reas to settle all doubts and misgivings. Pression among consumers that the farmport would seem to be of such a character Commenting upon the value of the crops of the country for 1910, Secretary Wilson well says that "nothing short of omniscience can grasp their value," which, in round numbers, is given as \$8,926,000,000. According to this report the increase in the value of the country's farm products during the past decade has been progressive without interruption for a single year. If the value of the farm products given in this report should enlighten them in 1899 were placed at 100, the value of in this regard. Those figures will also the crops for 1910 would be 189, or almost prove of interest to the producers, who double the value for the census year realize that they are not receiving as eleven years ago, and during this period large a proportion of the consumer's dolof unexampled agricultural production, a period of twelve years, during which the vanced in prosperity and wealth and in chase of the necessities of life as they farmers of this country have steadily adeconomic independence, in intelligence, wish they might. If the investigations the package is so marked. We ask the value of farm products is \$79,000,000,000.

value of the staples produced by the present year which is estimated at 3,121,-381,000 bushels, exceeds the record crop of 1906, and is greater than the average crop of the preceding five years by 14 per cent, and while its value is below that of the crops of 1908-9, owing to a decrease any in the market price, its aggregate value, or later, sure to follow. The report says: which is estimated at little if any short of \$1,500,000,000, is still beyond the comprehension of the average mind. It is a sum sufficient to pay the interest-bearing debt of the nation, buy all the gold and out the United States where the subject silver mined in the world last year and

still leave a balance on the right side of

The value of the hay crop is estimated at \$720,000,000, an amount which is 13 per

only one year, 1907.

ing both spring and winter varieties, is orders reach us before January 1, 1911, order. Do not put it off until it is too late placed at 691,767,000 bushels, which is But no orders, either new or renewal, about an average crop for the past five will be accepted at the present rates after years, but the value of the crop, which is that date. placed at \$625,000,000, is 7.6 per cent above the five-year average.

estimated at 1,096,396,000 bushels, or 22 from their present date. per cent greater than the average for the placed at \$380,000,000, which is 12 per cent above the five-year average.

Next in order of relative value is the the average crop for the past five years. Other crops have been about normal,

with the majority of them going slightly above the five-year average, and a few, notably flaxseed, falling off badly. But in no previous year has the production of cereal crops as a whole, been so large as this year, when they reached a grand total of 5,140,896,000 bushels, an amount which is 13 per cent above the five-year average. The value of this immense crop, while \$230,000,000 below the value of cereals produced in 1909 and \$50,000,-000 below the value of the crop for 1908, still 11 per cent above the average value for the past five years.

classes of products for 1910 with those "The farm value of the cereal crops declined \$230,000,000 in 1910 from 1909 and the value of all crops declined \$119,000,000. A gain was made, however, in the value of animal products amount-

country given an increased valuation of ready. more than \$300,000,000 above the value of the same products for 1909, it would not urban population of the country increasing even more rapidly than the production of our farms there is every reason for confidence in the future of the country's greatest industry.

The Farmer's Share of Secretary Consumer's Prices. son's report con-

sult of investigations conducted by the subscription are ordered at the same Department of Agriculture. This infor- time. mation bears upon the question of the high cost of living, which has been agitating the country during the past year agents or club raisers at less than the as never before. As before noted in regular price. However, when subscribthese columns there is a very general imers of the country are getting exorbitant prices for their products. This is a very natural conclusion, since they are compelled to pay high prices for the farmer's products when purchased in small quantities at the corner grocery. They fail to figure on the excessive cost of distribution under present conditions, but the general publication of the figures realize that they are not receiving as lar as they should, just as fully as those who consume their products realize that their dollars do not go as far in the purand a knowledge of agriculture, the total of the Department along this line inspire Taken by crops, the production and erate in the sale and purchase of those ums, whether insured or not, are carenecessities they will be productive of refarmers of this country is still almost be- sults of incalculable value. But this is yond comprehension. The corn crop of the probably too much to expect, and even if the public attention is directed toward the conditions which now exist in the distribution of farm products a vast amount of good will result, for when public thought is once earnestly directed along line, beneficial results are, sooner

In the farmer's aspect of the matter he receives various percentages of the consumer's prices for farm products. In the case of milk, 78 cities distributed through-(Continued on page 547).

### Subscriptions Expiring After January 1, 1911

Subscribers whose time expires after years and which has been exceeded in January 1, 1911, (no matter when), will be given the benefit of our present sub-The total production of wheat, include scription prices, providing their renewal Right now is the time to send in your

We advise those who can conveniently premium, do so to send their renewal orders now The oat crop for the current year is and the subscriptions will be extended

For only \$2 we will extend your subpast five years. The value of the crop is scription for five years or longer at the this issue. same rate, (the most liberal offer made by any publication), so that the advance to \$1 per year to be made January 1, potato crop, which is estimated at 328,- 1911, will not affect you for five years 787,000 bushels, or eight per cent above to come. It will be an investment that an inducement to get orders in early, we will pay for itself many times over and at the same time save you the trouble of renewing each year.

> Kindly tell your friends and neighbors of our present offers and get them to order with you. Also tell them about the free premiums.

#### ANSWERS TO SUBSCRIBERS' AND AGENTS' QUESTIONS.

Premiums for Small Clubs.

as a boy's watch, chair, or anything else offered, each subscriber is entitled to one of the free premiums we offer, and the sender gets the premium for the club. The comparisons of the value of different He also gets a free premium with his subscription if it is one of the club. All for 1909 are also interesting. The report subscriptions must be paid for at full subscription price.

Agents and the Gold Specials.

Agents, are you working for some of that \$200.00 in gold we are offering? This is only for December work. There are ing to \$424,000,000. It has been a year of 25 prizes. The top prize is \$50.00. De high prices for meat and animals, for you want it? It will require some work, poultry and eggs, and for milk and but- but that is expected. The gold specials, ter, and for these reasons the total value however, are in addition to all the comof all farm products increased in 1910 mission, etc.. The specials go to those \$304,000,000 above the estimate for 1909." who make the most in commissions. Write who make the most in commissions. Write With the products of the farms of the for particulars if you haven't them al-

When Premiums Are Not Sent. Premiums will not be sent unless the appear that there is any valid reason subscriber asks for it when he sends his for our farmers to be pessimistic regard- order for the paper. We cannot pay any ing the immediate future, and with the attention to a request for a premium amiss. A farmers' trade paper, and such when the subscriber writes he sent his order before and wants a premium now. We cannot refer back even one day. We get hundreds of letters and orders a day, too many to look through. We may know Under this head the order was sent in by the change of his Wil- date, but that would not assist us much in finding his order, which we would have tains some very to do. The premiums are free with the interesting information, which is the re- subscription only when the premium and

Subscribers' Club Rates.

No subscriptions must be taken by agents or club raisers at less than the ers desire to raise small clubs of five or more in their immediate neighborhood they may do so, and deduct 10 per cent from the regular price of the Michigan Farmer to pay expense charged, or if they prefer they may choose some of the special premiums offered for small clubs, See this issue. No discount is allowed for papers clubbed with the Michigan Farmer. The ten per cent can be taken only when they send clubs of five or more at one time. Each subscriber is entitled to his choice of a free premium according to the time he subscribes for. See list of free premiums given in this issue.

Insured Delivery of Premium. We have an arrangement whereby the

sured for five cents. They are not sent registered but safe delivery is insured and subscriber to pay this because we cannot afford it on a free premium. All premithe safe delivery is guaranteed.

Renew at Present Prices.

beyond Jan. 1, by renewing now at pres- indicates that your subscription will exthe additional time subscribed for now will be added to the subscriber's present beginning.

Procrastination.

In some cases this means that it has not entire list of dates.

been put off at all, but dropped for good. Something comes up between the time when it should have been done and the time when it had to be done, and it is not done at all. Result, another opportunity lost. Now, then, the price of the Michigan Farmer advances on Jan. 1, 1911. to take advantage of the present rates. You can save 25 per cent by taking care of this at once. Your choice of an extra "Farmer's Pocket Book," or a copy of "Concrete Construc-tion on the Farm," if your order is sent in on or before Dec. 25th, counts for something. See list of free premiums in Absolutely no subscriptions taken at present prices after December 31, 1910.

A Special Christmas Present. As a special Christmas present and as will send free to all subscribers whose orders are mailed to us between the dates of Dec. 16, and Dec. 25, a copy of Concrete Construction on the Farm. This small book contains illustrations and instructions for building foundations, silos, walks, floors bridges, cisterns, culverts, posts, tile, drains, etc., or one of our Farmer's Pocket Account Books. This is a small book of 72 pages with seven pages of general information. Pages are suit-If a club is raised for a premium, such ably ruled for daily egg record, hired help time table, field and crop records, also purchases, sales and individual accounts, with instructions how to keep them. Mention which one you want. It will be sent postage paid, providing your order is mailed before Christmas, Dec. 25.

> We wish you a Merry Christmas and a Happy New Year.

Sent only when asked for.

#### YOUR MONEY!

The money you spend for reading matter. Is it well invested? Dou you read what you pay for? These are pertinent questions. Answer them to yourself then act on your convictions. No person can profitably put money into publications they or some\_member of their family do not read. While this is a matter for your own judgent we believe from the many who tell us, and our agents, they are taking more papers than they can read, that a word of caution just now might not be a good farm paper is, should be carefully considered before ordering. Influence of others, that is, the advice of agents or others, to subscribe for a paper you believe neither yourself or your family can get good value out of, should be turned down and only those you are quite sure will be read, and good derived from, should be subscribed for. Papers you are solicited to sign for, offered without a payment down, should be refused. Some time you will have to pay for it, and it goes to make up the list you have no time or inclination to read. Your farm paper reading should be your first consideration. It should be a paper you can depend upon for suggestions which will help you in your chosen work. The one which gives reliable matter for thought regarding the farm, the garden, your stock and fruit, combined with good substantial, uplifting reading for the home, such a paper you will have to buy and pay for, but as a rule, it is operated along strictly business principles, is original in matter, employs the best correspondents, contains reliable advertisements and stops when the time is up to which it is paid. A few other publications, those of a special nature on subjects you or your family are especially interested in should, with the local paper, comprise the extent of your reading, the superfluous publications delivery of premiums ordered may be in- not read should be ordered stopped and the money saved.

### EXPLANATION OF DATES.

### 1Jan1-1Jan2, Etc.

When "1Jan1" appears on the fully done up, properly addressed and de- tab on your paper, it means that your livered to the post office. When insured subscription will expire Jan. 1, 1911, and that the last paper you will get will be the last issue in December of this year Even when a subscriber's time extends unless you renew your subscription, 1Jan2 ent prices there is no loss in time because pire one year later. 1Feb1 means that your paper will stop with the last issue in January, 1911, etc. The number foltime. Free premiums may be had just lowing the month on the date tab is the same as if it was a subscription just simply the last figure in the year when the expiration occurs, and the subscription expires with the last issue of the The tendency to put things off until a month previous to the one appearing on more convenient time, is quite general. the name tab in each case throughout the

# Magazine Section

LITERATURE POETRY HISTORY and **INFORMATION** 



The FARM BOY and GIRL SCIENTIFIC and MECHANICAL

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

# THE GATES OF BAKAPPLEIN—By Elizabeth Jewett Brown and Susan Jewett Howe

have produced no great change in the lives of his two children, Edward and Merle, if it had not been coupled with the entire loss of their little fortune. He had always been rather an impersonal factor to them, one whom they saw but for a few moments at a time, and who stood more in the relation of a benevolent banker who supplied them with plenty of money and asked no questions as to how they spent their allowances, than he did in the line of a personal father whose interests were inseparable from theirs; accordingly they had never given the subject of their finances any serious thought whatever until the lawyer's announcement that their father's sudden death had been hastened by the shock of learning that all his money, as well as theirs, which had come to them from their mother, had been lost in a final desperate venture whereby he had staked everything

After the first shock was over and they had time to think calmly of their future, the daughter, Merle, who was at a private school, was obliged to make the first move, for her brother seemed utterly incapable of planning or devising anything whereby they could make their own way in the world. His letters to her were vague and unsatisfactory. He was really glad to be able to leave the preparatory school where he was idling away his last year. He hated study, and his head was full of great ideas as to what he could do, when once free from the irksome routine of school life. The loss of the fortune was a far greater blow to him than the death of his father; and the bare thought that perhaps he might have to work for a living was so repugnant that he would not even consider it. He was a gentleman and he did not doubt but that he would soon make a fortune in some gentlemanly way when once away from school. Thus his letters ran, and when she suggested that they write to their only relative, their cousin, Searls Jackson, who lived on a fine old farm not many miles from Boston, he had agreed. In his early boyhood he had spent many vacations on the ancestral farm, though he had really no great affection for his stern cousin, yet he knew they would have a home and welcome there, and he did not doubt but that his cousin would help him carry out the schemes which were already formulating in his brain whereby he could make money without earning it. So two weeks after their father's death Merle sent the following letter:

"We do not know anything about earning our own living, Cousin Searls. And we do not know you very well either, as it is fully four years since Ned was at the farm and six or seven since I was there. But I am writing to ask if you will not invite us to the old place this summer as we must go somewhere, and I can think of no other spot in the world which could be a home to us but the farm where our father was born.

"You know how we have been brought and how we have always lived. In looking back I have no very distinct recollections of any home life, and neither of ever knew our parents intimately. and father with his business to bother throw and lost. Poor father. with us. A hotel apartment is never a first time in my life. Ned is indifferent all alone in the world.

for it seems, as the enclosed letter will Ned nor myself have any market value.

we have seen very little of father. He frankly he is only killing time. He is come there and then give me the chance The death of Edward Jackson would seemed to bury himself completely in his nineteen and I wish you would ask us to take care of her; though I do not supave produced no great change in the business and we had no idea he was fail- both there and set us to work. He must pose she is exactly a baby now, for I retendent continued while he was there; I do not believe that he knows how to but the lawyer writes that after every- earn anything. I heard a lecture once thing is paid—the bills and expenses I about the market value of a person, and mean-we will not have anything at all; lately I have been thinking that neither

ing in health. We supposed, at least I work; he is a spoiled boy, always good member you wrote that she was about did, that it was as much a business trip natured and jollying folks, ready for any- two when you adopted her. And her as anything which took him to Arizona, thing that is fun, but he never yet earned name, Yvonne, appeals to me strongly. I for I knew that his salary as superin- a penny, and I am ashamed to say that remember meeting my new cousin, Nell, years ago, and I have also pleasant recollections of her brothers and sisters, and her home, 'Old Beverly,' whose lands join yours. I am sure that when you show her this letter she will say, 'yes, if you are willing;' and I am very hopeful that as your hearts were big enough to adopt a little orphan, they are large enough to give two big orphans a chance, who must make their own way in the world and do not know how. I want Ned to be with me, too. I think I can influence him for good, and I do want him to get over his foolish notions of his own importance and be willing to work at anything he can get to do. He is smart enough to do most anything, and that is the reason he has always been such an indifferent scholar. He is glad enough to get away from school, and he is really glad that now he is not obliged to go to college. He has big ideas about making his own way in the world, though I doubt very much if he will ever make anything but mistakes until he learns how to do something that

> "Father once said that he had sold his birthright in the estate for a mess of pottage. And he also said that he hoped his children would return to the old farm; that there was nothing like out-ofdoor life to develop the best there was in a man, and I think that is what we both need-life in the country and a home with our own kin."

is worth while. But he knows, as well

as I, that at Easter we will each have to

leave school, so I am hoping to come to

West Winthrop where we can earn our

And so they had come to West Winthrop at Easter, to the home of their ancestors, the large old colonial mansion which yet bore the same name it had for two hundred years-The Jackson Standwhen it had been known far and wide as a famous hostelry of the olden time, standing as it did on the broad turnpike leading from Boston to other large towns of that day. Though its glories as an inn had long since departed, it was still locally famous as the oldest and handsomest house of colonial architecture in the country. The estate, consisting of more than a thousand acres of cultivated, timber and sprout land, was also one of the finest farms in the country, and for generations the Jackson family had maintained more style than did any of their neighbors. The house stood a little back from the road in the midst of a large, well-kept lawn where grand old shade trees arched the circular driveways, casting their grateful shadows over velvety green in summer and the delicate tracery of bare leafless branches over the frozen snowy ground of winter. It seemed to stand apart in dignified, stately exclusiveness from the frivolous modern residences. though its wide, heavily pillared porch extended a hospitable welcome to all comers, and its many windows glowed with light from the western sun, for the house faced the westward, looking across the fertile fields and meadows as if searching for the Little river which flowed at the foot of the long westward slope between the lands of Beverly and Jack-

As such it seemed to Ned and Merle longing to get into a real home for the and educate us; since then, father's salary girl, who must now be about three years Jackson when their cousin drove up the winding driveway under the arching elms, as to where we go. Your home will suit both have to leave. I am not sorry on maids and I honestly believe, if you will just as the setting sun was turning every as to where we go. Your nome will suit both have taken a post let me come. Cousin Searls, that I can pane to ruddy gold, and the very walls him, I know, and that is the reason I am my account, for I have taken a post let me come. Cousin Searls, that I can pane to ruddy gold, and the very walls writing this letter to you, for now we are graduate course here this year, mostly be earn my living taking care of the baby. seemed to vibrate with the welcome wifich all alone in the world.

### Christmas in the Old Home.

By Dora H. Stockman.

"Come, fill up the wood-box, Father, And make the big stoves roar, While I light the lamps, and brew the tea, Heap the plates from the pantry store. For children and grandchildren, and great-grandson, Will very soon be here To spend Christmas Eve in the old farm home-All our family together this year."

The sleigh-bells rang the Christmas chimes As the load drew up at the door, A merry, laughing, shouting crowd Made the rooms re-echo once more. Mother's eyes were soft with the old ic e-light, On her cheeks was the bloom of the rese, As she bustled about, pulling mittens and scarfs, Patting cheeks and warming small toes.

Then such a supper! Roast pork and mince pies, Doughnuts, cookies and cake, And all those dainty turn-overs and tarts, That a grandmother knows how to make. After the supper a wonderful tree, Decked with pop-corn and apples red, And loaded with heaps of presents From a bon-bon box to a sled.

Such talking and laughing together In the jolliest, merriest way, Till small tired heads, grown sleepy, Were in trundle-beds tucked away, And the sons and daughters gathered Around the low fire to hear Father tell, "how Bird, the horse, had died, And the crops turned out this year."

It was late that night when Mother And Father drowzed away, Dreaming of days when the "boys and girls" Were children again at play, And Father for Santa was building A marvelous home-made sled. And Mother listened to childish prayers As she put wee ones into bed.

That golden circle is broken now, The children are scattered far; And Mother has passed through the Shining Gate Where the Christmas glories are; Yet those happy, blessed, memories Will live in our hearts for aye Till together we meet in that beautiful house Where 'tis always Christmas Day.

has kept us in school; but now we will old. cause I had no other place to go. As for "Since mother's death, two years age, Ned, he hates discipline and I can say with and I do hope you will invite us to wife, who, with the little girl, stood in

Mother was always too busy with society show you, he risked everything on a final I have half-learned lots of things, but I do not know how to do one thing well, "Mother, you know, was an aristocratic that is, well enough to get money by dohome, for it was always nurses and maids Hill; and as she had a life income from ing it. I remember that when you wrote there; and teachers at boarding school the her family estate she was able to keep us of your marriage to Nell Beverly you son. rest of the time, and now I am positively her place in society, her's and father's, said that you and she had adopted a little I know that children need nurse-

them to their ancestral home.

It was so good to have a home at last that even Ned came under its influence yours had died for mere pleasure," laughthat even Ned came under its influence yours had died for mere pleasure," laughthe was proud of being a Jacked Merle. "Don't fret, Mary. I fancy Nell, bringing a piazza chair, mounted back." at once. He was proud of being a Jack. son, and he felt as if he belonged there as that I have learned enough about housemuch as did his cousin, either forgetting or ignoring the fact that his father had I can help Nell get dinner." sold his birthright in the old farm years

years before Searls' marriage. Both Ned done it." and Merle remembered them well, and, while they were glad to see Merle, neither funeral?" asked Merle in astonishment. had a good word for Ned who had developed from a teasing boy into a foppish be done I should think. Ben is as upset young man who felt immeasurably above as I be. We wont get back till after everyone who was obliged to work for a dark. I know them Shelleys-allus beliving, although he tried hard to conceal hind in everything. But what gets me his snobbishness when his cousin, in order is havin' to go as a mourner when I him light work on the farm at better wages in'. It goes agin' my conscience to use Have you ever wondered about the followed in every country where such than he could earn anywhere else, for he folks decent dead when I despised 'em origin of Christmas and of the numerous celebrations are carried out. The fir what he really desired was a chance to hoss soon we will never get started." buy and sell. He was naturally shrewd, days he began doing light term work, for away, I can tell you."
he had all the Jackson love of horses and "Can't you trust me for one day, Ben?" he had all the Jackson love of horses and upon his cousin for support.

ily. Her new cousin had taken her into can look after the work all right." her heart as well as her home, and the "You could," he admitted, "if it wan't girl was the happiest she had ever been, for Ned. He won't do one thing if I Little Yvonne was a constant joy, and ain't watchin' him. When he gets back Merle began to learn to do light tasks with that load of fertilizer I want him to around the house, though Mary Baker's put it just where I said." autocracy prevented her from learning as much as she would have liked to learn his wife as she climbed about cooking and housekeeping. The "I never saw such a feller as he is to good woman had resented Searls bring- get started. He come back three times ing a wife to the domain. She had after somethin', and when he went away reigned so long, during the lifetime of his he looked like a dude with his white colinvalid mother and also afterwards when lar and shiny shoes. His brains are in not work on this day during the gover- the Christ-child it is quite natural that he was alone, but the new Mrs. Jackson his heels and I told him so. He is nothhad managed the domestic wheels so tact- in' but Trot Back Jackson all the time." fully, that there had been no friction and "If those folks were not such good Mary still ruled triumphantly over the workers I would tell them what I think of 1681, greatly against the wishes of the old kitchen and bossed the men who ate at them," cried Merle indignantly as they Puritans, who continued to work against her table. Ned affected to despise the drove away. "They do not seem to think it, these objections continuing in greater mingled with them and with the help on selves. I wish they would not scold about 19th Century, since which time the day burning of the Yule-log was an ancient the farm. There was Old Joe Green, a Ned all the time, but he likes to provoke day man, whose gossip kept everybody them and I can't help it." informed about what everybody else was doing; Young Joe, his son, who, like his father, worked on the place by the day. harder or take more interest if they Jimmy Malley and Raymond Carver two owned the farm. Sometimes I think they other young men, who with Ben Baker lived on the farm and ate in the kitchen. And then as neighbor, there was Manning Beverly, Nell's brother, who lived on the Old Beverly homestead. He was somewhat older than Ned and, as he had recently lost his wife, he was making his way alone the best he could with his old grandfather, who helped look after the "I wish the office bee had never buzzed house and home when he failed in securing proper help, for his young wife's "I don't know as I do, for when he is death had left him with a tiny daughter, Baby Nell.

And so there was plenty of work for Ned to do. And, although Searls had said even if it does cost a quarter. She want- tions, and were incorporated by the early gradually omitted in favor of the Christnothing about the boy's financial straits, ed to slap Ned yesterday when he asked Christians in their festivities as a harm- mas one, but in many places the "Santa after the first novelty wore off Ned began to feel angry and humiliated about being expected to keep proper hours the same as the other men on the place. It was irksome and he chafed at the fact that he, a Jackson like Searls, should be hen in her arms. "Yvonne took Barb'ry ter solstice it was gathered and hung of placing the gifts about the hearth, obliged to work, when Searls did none of to bed with her," she explained uncon- over their doors as an assurance to the Since this was done without the knowlthe actual labor himself. He was a mem-ber of the legislature and his time was fully occupied by many duties. Having given Ned the best chance he could, he dismissed him from his mind, thinking that if left alone he would soon be glad of the chance he was giving him by helping him to help himself.

### Chapter II .- At the Jackson Homestead.

patiently on the piazza early in the can feed her some corn later." she continued sourly, "and Ben needs all crotch of one of the nearest shade trees, it blossoms each year. The variety in Christ-child.

folks to up and die, I say."

"You talk as if this second cousin of her pet to be taken down. ed Merle.

ago, and that he and his sister were there don't like to have folks puttering around doing overbalanced the chair and fell try and see how many bones I have only through the kindness and hospitality my kitchen, on baking days especially. heavily to the ground, painfully wrench-broken," she said with a forced smile as, of his cousin and his wife.

Now if this funeral could have been put ing one ankle besides striking her head leaning heavily on the girl's arm, she Their cousin Searls was a successful off till tomorrow I could have gone as against a stone. When Merle returned limped into the sitting room, farmer and business man. The farm was well as not. I thought of 'fome-in over she found her sitting disconsolately tryin charge of a capable manager, Ben and askin' them if they couldn't postpone ing to fight down the pain and wholly find time to go back to the kitchen and Baker, and his wife, Mary, the latter act- it, but land sakes, they are in anuther unable to rise. ing as housekeeper, but who had been in division and I couldn't stand the quarter, reality the head of the house for many when like as not they wouldn't have

"But who ever heard of postponing a

"Nobody, as fur as I know, but it could to help him to help himself, had offered never could bear her when she was livwas absolutely incapable of doing any- alive. It's bein' a hypocrite I say, but thing well enough to earn his own living. when they are dead you have to go any-He detested indoor work of any kind; way. If that boy don't come with that

"He is coming now," said her husband, and if he had been brought up differently as he came out, red and uncomfortable he would have made a good peddler, but in his store clothes. "I wish Mr. Jackson as his cousin failed to appreciate his was here today; I would feel more easy high-flown schemes of getting rich with- in my mind about goin' away. Old Joe out work, Ned was obliged to accept his Green ain't here today neither, and with the endeavor to replace such pagan fetes offer, though he essayed to treat his em- nobody to look after things but them ployment on the farm as a joke. In a few three boys it ain't very pleasant goin'

was really ashamed of being dependent asked Nell laughingly. "I don't believe the boys will burn things up, so go away Merle had fallen into the new life eas- and forget about the place for awhile. I

"If he ever does get back," snapped the carriage.

"They are not common 'help;' they are in every state. more than that, for they could not work are interest and principal both," observed Nell. "They have been a great ning, for they do not wish him to rent the farm any more than I do. And, since is the Greek letter Ch, being therefore an Searls became so engrossed in politics I abbreviation of Christ. believe that Ben takes more interest here Use of Holiday Greenery Adopted from than he does," she sighed unconsciously.

telephone."

cernedly.

"You did not," reproved Merle. "I put cold. you to bed myself and you did not have While recognized authorities give no were told that Santa Claus came down Barb'ry then."

corner and put the lid on when it got mistletoe was formerly a tree, but its clated with Santa, his appearance being dark," she continued seriously, "then he wood was utilized for the cross upon upon a white horse in many of the older took her out and she roosted on a chair. which the Savior was crucified, and ever legends. There is, however,

from the barn with the horse and car- and trotted back into the house, when a the case may be. The white berries seen ings is another survival of the St. Nich-"Here it is Wednesday, and bak- big dog came rushing up the walk, fright- upon its branches are not found until the clas Day customs. "Kris Kringle" comes ing day, and I have to be gone all day," ening the hen so that she flew into the plant is at least four years old, although from the German "Kristkindlein," or

it and tried to reach the still fluttering "I doubt it," she answered glumly. "I hold of the frightened bantam but in so

as usual, Barbara is at the bottom of it, her foot again that day; besides the blow Barbara and Buster. I know how the on her head had made her ill. Consehen came here, but how did Buster get quently, after an ineffectual effort to sit

"I don't think Ned chained him at all

ORIGIN OF PRESENT-DAY CHRIST-MAS FORMS AND CUSTOMS.

BY M. Y. M.

customs connected with it. Many queries arise when we recall the various modes of spruce or hemlock, probably because it celebrating the day.

Many of the modern Christmas ceremonies are taken from the old pagan Winfrid was cutting down a sacred oak of forms, like those of the Saturnalia, the the Druids, the wind split it in four Druids, the ancient Scandinavians and pieces, while behind it rose a beautiful Germans. These forms were in exist- young fir tree with its green spire pointence long before the Christan era, and in ing to the heavens. He named it the with those of Christian significance, with- sign of everlasting life because of its evout too great irritation, some of the less harmful customs were incorporated, and to this day are followed.

Christmas is supposed to have been observed first in the year 98 A. D. Pope Telesphorus ordered it as a solemn feast in 137 A. D. However, the first absolute certainty of its celebration dates no earlier than 140 A. D. It was celebrated in our country first by the early Dutch settlers in New York, or New Amsterdam, as it was then called. The Puritans considered such celebrations the heighth of folly, paganistic, in fact, and partak. This act was repealed in observance. Puritans, who continued to work against or less degree until the beginning of the has been universally celebrated throughout the country, being now a legal holiday

The greeting "Merrie Christmas," originated in England. The spelling of the word in the old Saxon form, "Merrie," instead of the later "Merry," meant agreeable or pleasant, rather than gleehelp to me since I have been helping Man- ful. Shortening the word "Christmas" to "Xmas" came about simply enough. X

Pagan Celebrations.

There are something like one hundred and fifty varieties of holly grown in var-"I don't know as I do, for when he is ious parts of the world, so that almost tomary for someone to dress up as a governor how proud we will all be," every country has its holly for use durbishop and distribute gifts to the chillaughed Merle. "Then Mary Baker will ing the holiday season. It and the misdren. After the celebration of Christmas 'fome over' for sure to those Shelleys, tletoe were used in the pagan celebra- became so universal this custom was her what kind of foam she found on a less usage of those of other days. Holly Claus" still retains the name of "St. is supposed to have been the bush from Nicholas." "Yvonne has got Barb'ry," said a small which Jehovah appeared to Moses. The voice behind them and the child appeared Druids especially prized mistletoe which ing Santa, which was followed for a long in her little nightgown hugging a bantam grew upon an oak tree. During their win- time, was finally supplanted by the habit gods of the forest of shelter from the edge of the children, they very naturally

credence to the tale, there is in existence the chimney with them, then going on his "Neddy put Barb'ry in a basket in the an old Celtic legend which states that the way. Reindeer were not originally assohapter II.—At the Jackson Homestead.

"Yvonne should say 'I' always," corparasitic growth. It is most frequently reindeer having certain marks came from 'If folks have got to die I don't see why rected Nell gently, "and she was a found upon apple trees, but also grows the far north country once a year, and "If folks have got to die I don't see way rected Neil gently, and bed upon pear, hawthorn, poplar, evergreens since Santa was usually supposed to rethey can't take a convenient season for it naughty baby to take Barbara, to bed upon pear, hawthorn, poplar, evergreens since Santa was usually supposed to rethey can't take a convenient season for it naughty baby to take Barbara, to bed upon pear, hawthorn, poplar, evergreens since Santa was usually supposed to rethey can't take a convenient season for it naughty baby to take Barbara, to bed upon pear, hawthorn, poplar, evergreens since Santa was usually supposed to rethey can't take a convenient season for it naughty baby to take Barbara, to bed upon pear, hawthorn, poplar, evergreens since Santa was usually supposed to rethey can't take a convenient season for it naughty baby to take Barbara, to bed upon pear, hawthorn, poplar, evergreens since Santa was usually supposed to rethey can't take a convenient season for it naughty baby to take Barbara, to bed upon pear, hawthorn, poplar, evergreens since Santa was usually supposed to rethey can't take a convenient season for it naughty baby to take Barbara, to bed upon pear, hawthorn, poplar, evergreens since Santa was usually supposed to rethey can't take a convenient season for it naughty baby to take Barbara, to bed upon pear, hawthorn, poplar, evergreens since Santa was usually supposed to rethey can't take a convenient season for it naughty baby to take Barbara, to bed upon pear, hawthorn, poplar, evergreens since Santa was usually supposed to rethey can't take a convenient season for it naughty baby to take Barbara, to bed upon pear, hawthorn, poplar, evergreens since Santa was usually supposed to rethey can't take a convenient season for it naughty baby to take Barbara, to bed upon pear, hawthorn, poplar, evergreens since Santa was usually supposed to rethey can't take a convenient season for it naughty growled Mary Baker as she stood im- her down on the walk now, and then you green itself, and usually about four feet likely that this legend has given rise to can feed her some corn later." long with many branches and leaves, the the story of his driving teams of these
The child reluctantly released the hen latter growing upward or downward as exquisite animals. The hanging of stock-

the full glow of the sunset to welcome his time here, too; it's a pretty time for where she cackled wildly, causing the this morning," Merle explained. "I know child to scream in terror and plead for that he fed him and the dog was loose when he went away. I think he tried to Merle hurried away with the dog, and follow Ben and they must have sent him

> "Another of his careless ways and some work in these two or three weeks so that hen. The child was still crying and, more of Yvonne's naughtiness; together making a desperate effort, Nell caught they have used me up for this day. Now if you will help me into the house I will

It was over an hour before Merle could "See what has happened," she said, "and totally prevented her from stepping on up, she had been obliged to lie down and

(Continued on page 542).

this country is unlike that in Europe or other foreign lands.

In cold climates some form of evergreen tree must of necessity provide the Christmas tree, and the custom is consequently seems to have precedence over the pine, was the tree mentioned in the German legend. The story goes that while Saint Christ-child tree, and considered it a ergreen character, asking the people to gather about it in their homes where it was to shelter only gifts of kindness and love. The use of a tree at the Christmas celebration dates back to 1600, but its exact origin is unknown. It is probably due to some of the numerous mythological trees of the ancients.

At the ancient Jewish feast of Lights or of Dedication, candles were kept burning in the windows of the homes and in the places of worship. These were undoubtedly lighted at the time of the birth of Christ, which doubtless accounts for the ing of Roman Catholic rites, and their use of candles upon the Christmas trees. families were forbidden to countenance them in any way. There are records of the old Romans during their feetivele the punishment of young men who did and since the Wise men carried gifts to norship of Bradford, and in 1659 the Gen- the custom of making presents to our eral Court of Massachusetts forbade its friends should be followed in these later years.

Christmas carols were sung by the earliest Christian bishops, and Christmas cards have been in use since 1846 when they were first printed in London. The ing of the year, this being done in honor of the god Thor. The custom was also followed at various winter festivals in England, France, Italy and Servia, and the ashes resultant therefrom were considered magical in power.

Legends of "Santa" and His Reindeer. "Santa Claus" is derived in a perverse fashion from the "Sinter Klaas" of the Netherlands, and in that country the 6th of December was formerly celebrated as St. Nicholas Day. St. Nicholas, the patron saint of children, was originally the Bishop of Myra in Lycia, who died 326 A. D. Following his death it was cus-

In Germany the custom of impersonat wished to know how they came there, and since that time it has been relegated to Spitzenbergen legend which claims that

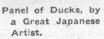
# Japanese Color Prints

By Eva Dean.

charming pictures starts many of one with the other. ones, are not often very choice or very the Madonnas and kindred subjects. slightest way to western work.

in the making of Japanese prints is nec- gels, etc.

more charming than This paper is pastthe to be printed in any that even for a (the prints of mod-Japanese arthis as many as fifteen in color combinations. will have



single print. For widely varying shades of a color, different blocks will be used, and so it happens that in a print that is mostly gray, a color of which the Japanese are very fond, there may be as many as six gray blocks.

After the blocks are all cut they are painted in water-color, and then the paper is laid over them, and by rubbing it on the back with a little tool called a baren, the paint is pressed onto the paper. This process is repeated until impressions have been made from all the blocks, and the print is completed. Each block has to be freshly painted for each impression.

In making these prints a large number are made at a time, and the impressions of all of them from block 1 are made before block 2 is taken up. This expedites the printing, and as thousands can be made from one set of blocks after they are once cut, one can readily see why really good work can be had for so small a sum that every one can afford to own it. The very opposite is true of the art of western na-Perhaps this fact alone explains why it is that, as a nation, the Japanese people are the most artistic nation alive today, and we, of the greater nations, are probably among the least so. In Japan it is said that a whole family will go out into the street to discuss the best possible place to put an article in a show window. And the arrangement of flowers in vases is as important a part of a young lady's education as music lessons are with us.

But we must not approach a Japanese print with a pre-conceived idea of what it should be, expecting it to look like the it eventually. And the fact that we must earnestly places in his room. never forget is that Japanese art and our

HE fact that we must use the art differ so widely in every respect that term "prints" in describing these they should not in any sense be compared

us out with a wrong impression. For we Imagine, if you can, our art with no can not forget that prints, as we know such thing as a religious picture in it: All the term, especially the smaller-priced our old masterpieces would vanish with beautiful. But although properly a print, then take away all portraiture, and what the Japanese work is not related in the is there left? Japanese art contains no ightest way to western work. religious pictures, no portraits, and no A brief explanation of the process used imaginary creations, such as nymphs, an-When they draw a man or essary. The process is purely a Japanese a woman, they will not think it desirable one, and represents a great deal more or proper to make it look like any indicare and labor than an Occidental would vidual man or woman. It is this fact give to such a mat- which westerners are slowest to underter. For that rea- stand and to become reconciled to, much son, they are much to the bewilderment of the Japanese.

The things that the Japanese best love any western work, to do, and of course, the things which The artist draws they portray the most charmingly, are his design on thin small bits of nature. A flight of birds, or paper, in outline, even a single bird, a few leaves or a branch of flowers, or even a group of ed on a block of paper toys are quite sufficient for a piccherry wood, and ture. Whatever they do will be so studthe wood carefully ied and arranged as to delight the becut away from the holder as perhaps a weightier subject lines, leaving them could never do. And they never "draw standing up in high from life," as we say. The man who relief. Then, after draws swallows will watch swallows, and the design is col- live and study swallows until he knows ored as it is intend- them and their habits so well that he to be, more draws them from memory in any position blocks of wood are that is natural to them. And naturalists, cut the exact size who thought that by the use of the modoutline ern quick camera they had discovered block, but each motions of the wings of birds too quick block bears in relief for the human eye, have been chagrined only that part of to find these motions carefully portrayed the drawing that is in old Japanese drawings.

one color or shade, any one thing so truly as it depicts the do show the drawing and the simple ar-All one shade of red spirit of it. It is not the wave, but the rangement that distinguish Japanese picwill be on one swirl of the wave, that they draw; not a tures from those of any other nation. block. If there are landscape, but a feature of it; not a Note how, in the duck panel, only the three reds used, raven, but the whir of a raven's wing heads and breasts are pictured. there will be three across a sunset. It is not a portrait of original print from which this half-tone aspired to such high things. three red blocks. So nature they paint, but simply a record of reproduction was made measured 21/2 @14 often happens their own feeling and love for nature.

cheap 25-cent print lines and masses in any given space, the tists range, in price ing a mistake in this matter, and they terpiece by Hiroshige, illustrated herecountry nearly always, especially when working with, is an interesting study in drawing from 15 to 75 cents) for their own use, are as unlikely to err as well as in coloring. The sky in the

been used. In olden any kind that could be so beneficial as pale buff moon. The sea is also the same times as many as a the Japanese color prints. For the Jap- pale buff, shaded near the land by faint

childhood. A great part of its charm lies in what it only suggests or implies, and these qualities open with the years and experience of its beholders.

the old Japanese masters, now mellow most before Kate's genial hello reached and brown with years, are today eagerly me. sought by collectors and it is only recently that the Japanese people have slowly a smile gathered in her eyes. awakened to the fact that much of their "Those little heathen are now, in many best work has found its way into France, cases, the influentials of this community, England and America. The French were madam," she informed me, "and are among the first to appreciate Japanese given the title of papa, mama, dad, dad-

CHRISTMAS IN DISTRICT No. 4.

BY ANNA GIRMUS

Many of the most simple drawings of when you taught here?" I demanded al-

Kate looked at me in surprise and art and the productions of Hiroshige, the dy and in a few instances good, honest



From a Landscape by Hiroshige, the First Great Japanese Landscape Artist.

them as well as with Americans.

The prints illustrated herewith do not of course, give any idea of the beauty of The Japanese work does not depict the coloring of the originals, though they inches, and contained exactly the same In composition, or the arrangement of proportion of the bodies of the ducks as represented in the half-tone. This is Japanese are studied by 'e artists of all characteristic of the simple suggestion of the world. They seem incapable of mak- all Japanese art. The old landscape masprint is a grayish green low down, deep-For children, there are no pictures of ening into a dark blue-green above the

great landscape artist, are popular with simple father and mother by the little heathen of today.'

She made another dive with her hand into the package of rolled oats which she had just opened and hauled out a small plate. The look of disgust on her face was good to see. "Did you ever try to get a set of oatmeal dishes with your oats?" she inquired.

I confessed that my ambition had never

"That makes twelve of those miserable, good-for-nothing little plates that I don't want at all, three cups and saucers, one larger plate and only two oatmeal dishes, and they are not mates. If you ever should want to get a set in that way, just want something else and you'll be sure to get the oatmeal dishes."

"All right," I acquiesced meekly. "I'll want soup tureens. But what did they call you?'

The smile reappeared in Kate's eyes. "What's the matter? You want them to hundred blocks are said to have been anese are passionate lovers of nature, paralle! lines. The mountains are gray-call you Miss Mary and they insist on used occasionally in the making of a Their drawings breathe a reverence for it brown, the bluff top a very light brick calling you Miss Marks?" The question of what was in the oatmeal package being settled, she gave my troubles her full

> "No. I want them to call me Miss Marks and they persist in calling me Miss Mary." Under the influence of that smile my irritation was disappearing. After all "What did was such a little thing. they call you?" I persisted.

> Kate looked at me reminiscently. Slowly a faint color covered her face. The ghost of an old embarrassment caused her eyes to drop. "But Miss Mary is not bad at all. Why do you object to it?" looking up with the old smile.

> "It's so kindergartenish," I defended "They are all too old for it. You myself. h-ven't told me yet what they called

> The memory of that old embarrassment gain covered her face. "Teacher," she again covered her face. "Just old-fashioned teacher, admitted. and at every institute, every teachers' meeting, every gathering that related at all to teaching, someone would talk for an hour or more on the abominable sin of permitting oneself to be called teacher.'

> We both laughed. One of my troubles vanished at least for the time. If Kate, of whom so many of those boys and girls of that former generation spoke so higha like trouble, perhaps, after all, might succeed as a teacher in time.

> Then I remembered another worry. "Did your boys ever fight?" I was serious enough now. This was a real breach

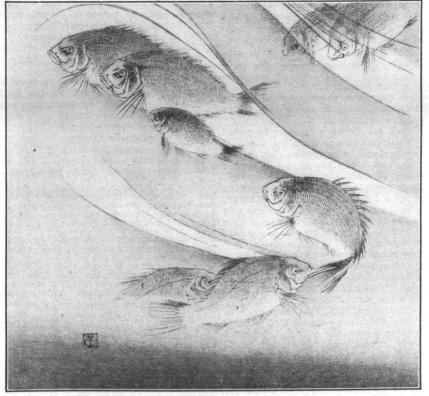
Kate immediately reflected my mood. She gazed thoughtfully at me for several "Never heard of but one fight seconds.

I withered. I was sure that I'd never succeed.

"Do your boys fight?" she asked. "Yes," I admitted shamefacedly.

"Did you see them?"

"No."



The Pink Iridescence of these Fish Blends Exquisitely into the Marine Blue of the Water in the Colored Print.

But Japanese art is not outgrown with green.

pictures we have been in the habit of see- with which teachers and parents should red, with the sides darkened by heavy ing all our lives. It is much better to only be too glad to surround their chil- strokes of black and brown. Note how all that winter." view it humbly, in a spirit willing to be dren. And, too, animal and plant life the parallel line shading of the water taught. For if we do not at first recognize are things that a child can understand, deepens to indicate the valley leading toall the true charm and power of their in his little childish soul, years before he ward the mountains. The trees are certain, simple lines, we are bound to do can the Madonna which his mother so black. In the immediate foreground, just above the houses, the coloring is a dull

"Have the parents complained?" "No."

"Has the licked boy complained?"

Walker talking about it."

"You should not overhear such things," Kate advised comfortably. I looked perplexed and she laughed. It was one of per cent." those memory laughs of hers and I waited until she would be ready to enlighten me of its source.

"You have never had any brothers," she began in a moment, "and so take the by this time. fighting too seriously. Years ago when we were going to school, Bob, Frank Wheeler, Jack Wood, Fred Sims and Tom Bryan all came up this way and really 1 don't believe there was one night without a fight or two. We'd reach the first corner where Frank left us and there would be a battle in his honor. Farther down, Jack turned to follow the railroad and there was another fistic encounter, and so on until we came in sight of home. I mas." don't believe it ever hurt them much physically, and morally they needed some the scamps are still children and expect such outlet. I never knew one of them to torment a younger child or a helpless think, however, that they expect some

I thought of all five of those men. don't believe one could hire them to fight day what we would do. They had a box Eve Before Christmas,' every word, 'fore now," I ventured, forgetting my young- last year and each child put in what it he was eight.'" I was sorry that I had sters entirely.

"I don't know," she mused. "I hope a man.

I hoped so too. The sin of fighting had assumed a new aspect, but one could not have it in school or on the way to and That is contrary to all from school. discipline. Of course, you may ignore it for a time, but it will be sure to make trouble. Then I remembered that Kate had confessed to having had one case in her day. "What did you do about the fight of which you heard?" I asked.

Kate's eyes twinkled. "It was a week or two before Christmas. Jack Sims saw two of my smaller boys going home one evening and got them to fight, the big scamp. So when we began preparing for our tree I stopped him one morning and told him that he must give us something toward it as a sort of punishment for leading those little fellows from the straight and narrow path of school discipline.

"He cheerfully handed me a dollar. naturedly, produced a dollar as soon as I began talking tree to him. Bachelors were quite as well represented in this helped our tree wonderfully. In those times, you know, a dollar was much larger in value than now.'

"Did a fight follow the gift of each dollar?

"Not that I heard of."

My sarcasm was wasted, but the mention of Christmas put me in mind of an- by our kind intentions. other perplexity.

ed in that tree and have even the older out of the way."
people come? They say that the room It took the er pupils still talk of it."

that they were as interested. It must anything else. have been because so many gave toward

of-fact tone, that I never thought of thank

you. me to please the children," I

persisted. "Didn't they say a few nice things to

"Yes-but-"

She laughed. "Their presence alone ought to be satisfying. Do you know that the night of that tree or trees which you seem to think was such a success, I came home and cried like a great big baby because one child forgot his part and the mother of one family would not permit her children to attend? Why it was twenty years later when I realized that it them to rehearse once or twice, and when was a success and that people had really one-half wanted to give up the expedibeen very nice to me all that winter, tion the other was determined to go. 1 enjoying such things when we might en- and almost sorry that the youngsters, joy them at once, to say nothing of the with few exceptions, were ready to go.

help it is to one to realize that her work is appreciated."

"No, but you'd not wait until someone low voice that I felt that the criticism children bore her company. "My kids complains, would you?" I inquired in sur- was not all for me. We were silent a goin' among the dirty paupers? Not if 1 "How do you know that they fight?" "Better value every bit of success at a always plentifully supplied with tobacco" overheard Luella Sims and Grace hundred per cent and don't look for the and his overalls and boots generously failures with a microscope, if you want decorated with barnyard filth. to be at all comfortable. On the other The trolley conductor had s

That light tone brought back the presdrums had disappeared from my voice

"It's so near Thanksgiving," Kate re-monstrated. "Your entertainment was so good then. Do you need to have anything extra for Christmas?"

planning today on taking oranges and ance. One old man in the audience incandy to the poor farm. They have taken sisted on applauding whenever there was a treat out every winter for the past two or three years. You know the up-to-date idea is to teach children to give at Christ, passing their treat, I overheard him still

"Not a bad idea, but I am afraid that to receive a little, too. What makes you extra doings at school?"

"Some of the girls were wondering towished for the others. Grace Martin said not had the children commit a few of that was so slow. Then I remembered those old gems of literature. they would on occasion. It's not entirely that Miss Hines told me that some of the pleasant to see the fight instinct leave children carried home their arms full of general favorites. Little Ruth of her own packages, while others received the one little gift provided by her. Little Ruth of candy to Grandma Clark and, when Sloan proposed a tree but Grace the gentle old soul laid her trembling squelched that idea. 'We have had trees hand on the little maid's head, she raised so much,' she declared with that world, her young blue eyes to the tired old ones weary air of hers, 'and they are so oldfashioned'."

I knew before I had finished that Kare to me. was already planning for me. "Why don't she?" you have them give that little play and drill that they gave Thanksgiving, at the poor farm when they take the oranges and candy," she asked presently. "That would be carrying out the idea of giving Christmas tree, lighted tapers and all. instead of taking, and it would give them that half day off, which is a treat of itself if I remember my school days."

I just stared. "I hadn't thought of it," admitted after the idea had sifted ma Clark. through my gray matter. "Only a few of the boys have gone in other years, to take the treat," I ventured cautiously.

"I am certain that those old people out was worth it, he said. Well, after that there would be pleased with it and the every old bachelor in the district, good superintendent would surely be willing to have you come."

We talked over the details. Kate has a way of growing enthusiastic and I am community then as they are row and it usually weak enough to let her enthusiasm not only lead me but to thoroughly master me. When I went home that night the trip to the poor farm was the only thing to be thought of for the school.

> The next day being Saturday, I went to interview the superintendent. He gave his consent, but did not act overcome

"You kin have the dining-room," he How did you get them all so interest- condescended. "We'll move the tables of a quarter of a century ago.

It took the entire afternoon to finish was crowded and some of those who were the arrangements and by night much of my enthusiasm had vanished, but it was "Do they? That's good. I didn't know too late and I was too tired to plan for

Monday evening, before dismissing, with

"Daddy says that I'll have to give Book Company. Grandma Clark her candy." Ruth Sloan's blue eyes looked big at me. Grandma Clark is not real bright but she is a gentle told soul who loves children and tries to caress them, although they are afraid of her and Jim Sloan must tease if it's only

Twenty years is too long to wait before was glad when Friday afternoon arrived

Grace Martin stared after us, but her mamma was still afraid of the germs, so There was such a tone of regret in the she had to return home. The two Flint while. Then the old smile reappeared, know it," said Jake Flint whose mouth is

The trolley conductor had some trouble hand, don't let it be more than a hundred in crowding us into a car. It was two o'clock before we had our curtain up and were ready to begin. Our audience was ent. "I don't know what to have them waiting for us. "Why, they look as nice do for Christmas." I hope that the dol, and clean as anyone," whispered Luella Sims.

"Sure, of course! What'd you expect?" answered Harry Sloan who had been out with the oranges in previous years.

The boys pulled the curtain and our actors sallied forth. They really did do "They seem to expect it. They were better than at the Thanksgiving performthe slightest excuse for a laugh. After it was all over, and the children were chuckling.

> One old lady insisted that the world was sadly degenerated. "In my day," she croaked, "the children learned such nice pieces like 'It was the Eve Before Christmas.' That was a good deal harder than this marching. I learned my Harry

> The smaller children appeared to be accord carried a nice orange and a sack and Grandma softly stroked her hair. "I never was one bit afraid," Ruth confided "She's a nice old lady, isn't

> Just then there came a regular warwhoop from the boys. I turned to see what was the matter. The curtains had been parted and there stood a regulation real Santa Claus was waiting to distribute the gifts. Little Ruth stuck to me closer than a sister, and when old Santa offered to kiss her she hid behind Grand-

I think that the old people enjoyed the tree as much as the children, and the old bachelors who trimmed it enjoyed it the

The superintendent and his entire family laughed at my surprise. Of course, they had known of it and had given those old bachelors permission to come out there and surprise us. It was really two celebrations

"Not quite as good as that tree we had when Kate Smith taught in old No. 4," I heard Hiram Sloan remark. Hiram was one of the instigators of the surprise.

"That's twenty-five years ago," Gerry Sims, another instigator. "Maybe things look different to us now."

I hope that my youngsters may remember this Christmas as well as the good people of the district remember that one

### BOOK NOTICES.

The following new books can be obtained through the Michigan Farmer offices at the prices given:
Story of Old France. By H. A. Guerber. A new historical reader for the upper grammar grades, which may also be

it. I remember that one or two men stopped in that afternoon to watch us trim the affair, which was two trees, not one."

"I wish that I might get them as interested," I blustered.

Her eyes turned on me in surprise. "Why your Thanksgiving entertainment was ever so much better." The compliment came so easily, in such a matterment came so easily, in such a matter-ment came

caress them, although they are afraid of her and Jim Sloan must tease if it's only his little daughter.

It did seem as if I heard all objections a half of the time and encouragement the other half. I was mighty glad that we had only that week in which to prepare.

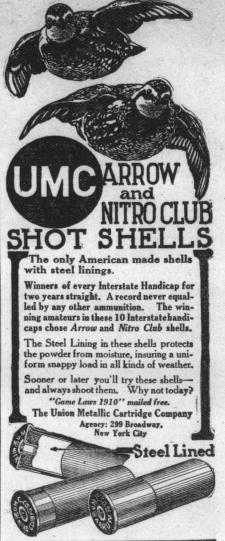
The children were anxious to give the play again, so it was not difficult to get them to rehearse once or twice, and when one-half wanted to give up the expedition the other was determined to go. 1

The children were anxious to give the play again, so it was not difficult to get them to rehearse once or twice, and when one-half wanted to give up the expedition the other was determined to go. 1

This story of Lord Baltimore's colony is told in the words of a lad who sailed with first colonists in the good ship "Ark." and shared their stormy voyage to the new home in Chesapeake Bay. Cloth, 12mo, 166 pages, with illustrations. Price, 35c. American Book Company.

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This book provides instruction in oral and This book provides instruction in oral and written language for the fourth year. Cloth, 16mo, 128 pages, with illustrations. Price, 23c. American Book Company.



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#### GOING HOME TONIGHT.

BY LUCY ELWELL.

Through frosty air that cannot chill Because my heart is warm and bright, O'er frozen snow plains that but fill My soul with Christmas-tide delight. From care and toiling free at last, To days too brief, with heart so light, All sober thoughts aside I'll cast, For I am going home tonight. .

Friends re-united there will be. Fast beats my heart at the joyful sight. Sisters and brothers I shall see, Gathered again round the fireside bright. Father and mother waiting for me-Hair that is touched with silvery light, Dear eyes that brighten when they see All of us coming home tonight.

Many the Christmases yet to come On every dear one's blessed face As we shall gather in the home. Sorrow and toil will leave their trace, Yet we'll be happy while we may, Merry in warmth and love and light. Many the years that we may say, We all are going home tonight.

#### HOLIDAY PASTIMES.

BY GENEVA M. SEWELL.

The holiday season should consist of something more than mere eating, drinking, and giving. When the home folks are beneath the home roof is the time to plan for some games in which all may take part.

Some time during the week invite the children's small friends and relatives to spend the afternoon and stay to supper. Let them play with the new toys and games until supper time, then after supper light up the tree for the last time and while they sing a song ("The Wonderful Tree" is a good one) and march around until the candles are burned out, divide the decorations left on the tree among them. See that some small gift is there for each one, besides the usual treat of candy and nuts. This gift may be hidden in an orange, apple, or pop corn ball. It should be some small article which may be secured at a cost of only a few cents.

On New Year eve gather all the family together and have each one bring his old calendar. Then in turn have each tear the last leaf off and tell the most interesting thing that has happened to him (or her) during the year. After all have told of pleasant times or something else, and the leaves are all burned, pass around leaves made from note paper and cut in the shape of a maple, oak, or grape



Leah and Ducks she Helped to Raise.

the new year on. Much merriment will They had to buy some eggs for them. In order, with heads of wheat and rye and the titles, using in each case the name be caused by the many things meant to all 36 ducks were hatched, of which 26 barley, and whatever else of that sort can of the recipient and, if possible, having hostess, to be carried to the family meet- only 22. During the summer the ducks ing next year. Even little children may got to wandering so far in the fields that

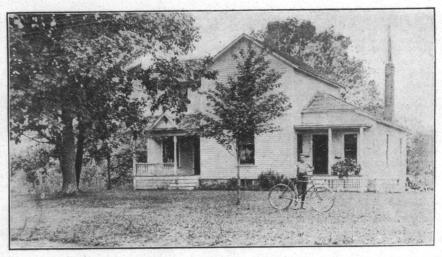
On the last evening before the party breaks up, try having a guessing game, have been ever since. Place small articles in boxes of various sizes and shapes. Have the box well filled with something, if only paper and small pebbles, if the present does not fill it and it must not, for the smaller the present the bigger the box. Write some, thing suggestive of the contents on the

looking glass in one box and mark the try making a Christmas tree out of paper. leaves with transparent varnish and dust box "A Place for Reflections." A Negro First draw one, or copy it, with candles with diamona dust doll would be "In Darkest Africa;" a and all. Color the tree green and the

### Filling the Christmas Pocketbook.

How Wide-awake Barry County Farm Boy and Girl Earn the Money they Need for the Holiday Season.

BY MRS. K. T.



The Home-like Barry County Abode of Louie and Leah Terpening.

brought them about \$6.00. The next year they sold 20 and this year they have 22.

They have done all the work connected with the raising of these ducks, which has been considerable. The work begins early in spring. When the old ducks begin to lay they have to be shut in every night, else they go to the nearby pond and deposit their eggs in the water. Sometimes they refuse to leave the pond at night. Then Louie and Leah get a ball of binder twine and stretch it across the pond. Stretching this twine from opposite sides they sweep the pond with it, thus literally scraping the ducks

When the little ducks hatch, which is usually in June or July, they take them from the hens and raise them by hand. Why leave them with the hen? will not follow her, so she has to run after them, which she soon tires of doing. So the little ducks are gathered into a basket at night and set in a safe place. They are kept from the pond until well grown, and this is not an easy thing to do, as ducks can scent water at a considerable distance. If they get to the pond while young the mud turtles are almost sure to get them.

This year the hens refused to set and it looked as if there would be no little ducks. At last a second-hand hot-air incubator was found for sale for one dollar. It was a very cheap single-wall machine, but did very well, the weather being warm. This incubator held 50 duck eggs. The ducks were not laying regularly and the hatch was not a grand success. Only 20 live ducks were secured, a great many dying in the shell. They laid this to the eggs and carry out the dominant idea. Oranges, not all being perfectly fresh.

leaf. These are to write resolutions for each built a nest and went to setting, toes, and even cabbages-all these are in in fancy gilt letters upon the covers were be done and obstacles to be overcome. were raised. However, someone borrowed be secured. These are all signed and kept by the four of them one dark night, which leaves take part in this; if they cannot write they failed to come back at night. After draped also in the national colors. When known; another, "The Tale the Gypsy their desires themselves, someone else a three-days' search by a very anxious an extra touch is desired, as, for in, told to Helen." Helen actually had yield-may for them. home and shut in a yard, where they

> Louie looked after the incubator with presents. but little help, and did it as well as a much older person-better than some I He often looks after his mother's trading.

The ducks, being late hatched, are ready dipping them into a saturated solution of was given to a quiet youth who was giv-

Louie and Leah Terpening, aged 13 and for market just before the Christmas 10 respectively, have for three years holidays, at which time the money is been raising ducks for pin money. Three fully appreciated, as you can imagine. years ago their grandma gave them a One thing I am sure of is that, in years pair of ducks. They set two hens on 11 to come, neither of these youngsters will duck eggs each and raised 12 ducks which venture into the poultry business with a mistaken idea as to the amount of labor required to get results.

### TRIMMING CHRISTMAS TREES.

It is not necessary to spend a lot of money in trimming the Christmas tree, but the exercise of a little thought and ingenuity is called for where one desires to introduce new and novel features in this line. A rather popular idea, especially for a church or school tree, is the "National Christmas tree." The tree itself should be a stout, well branched evergreen. On the very top is placed the shield of the United States, with a gilded star poised upon it. Below this, on the topmost branches, tie a circle of small flags that have been washed over with thin glue and sprinkled with diamond while still moist. Attach narrow red, white and blue pennants to the upper branches, and hang red, white and blue balls here and there.

Instead of the usual decorations, substitute something that is symbolical of the life and products of the nation, and of the peoples who dwell beneath its flag. For example, negro dolls carrying little baskets of raw cotton on their arms or heads, yellow china dolls in Filippino costume, sitting on little palm leaf fans or in tiny thatched huts. Indian dolls in blanket and head-dress; Chinese laundrymen in national costume; rifles, bows, arrows, tomahawks, the Filippino bolo, and various characteristic objects.

Fruits and vegetables, real, not makebelieve, will make effective decorations, ot all being perfectly fresh. lemons, bananas, pineapples, apples. The Ducks do not Receive All Attention. When the old ducks got through laying cranberries, ears of corn, carrots, pota-

A frost-covered tree is made by cutting loosely around them some white varn and

outside and then pass sheets of paper and on." Continue the list until there will alum. Twist more yarn into ropes and pencils around and let each one guess be a present for each one, including the "alumize" these also. Then wire the cutwhat he thinks the contents are. The children. Have each souvenir marked off branches into place again, and arrange one guessing the most of them correctly with the place and date, so they may be the frost ropes here and there over the gets first choice of boxes, the second gets kept as remembrances of a pleasant week. tree, and especially near the ends of the

If further frost decorations are desired small bell "A Morning Caller;" a table candles red, and put on touches of gilt. in the shape of circles, stars, Maltese of writing paper, "Nothing But Leaves;" Fix it so it will stand by placing a card-crosses, hearts and shields, cut them out two spoons "Lovers;" a top slipper for a board rest behind it. If the tree seems of cardboard, varnish and dust them with watch case, "The Family Regulator;" a too big an undertaking try making one the diamond dust. Popcorn strings with couple of pennies "Common Sense;" six- by copying a tiny Santa Claus, or plum the dust on them will add to the charmteen pieces of candy "Sweet Sixteen;" a pudding, or turkey. They are simple to ing effect of the decorations, and color small child's broom "A Woman's Weap- make when copied. tinsel cord and a darning needle in stringing the berries, and put them in groups of five or more about the tree. If candles are hung in the tree, be careful that the flame can not come in contact with the yarn. And just here it may be well to sound a warning. Do not use candles where cotton batting is used in decoration, as in the snow-covered tree.

> For the very little folks very simple decorations will give quite as much delight as the most expensive. Strings of popcorn dyed in colors, strings of cranberries, and a dozen or so of the little penny Japanese lanterns and open parasols will give plenty of color and life to the tree, and a few mirror balls and tiny flags will add to the gaiety.

Split some English walnuts, take out the meats and replace them with a tiny doll or bits of candy; gild or silver the shells and glue them together with a loop of baby ribbon to hang them by. Small rabbits made of tarletan overcast with bright worsted and filled with nuts and candies and raisins and popcorn, one for each little guest, will give more solid joy than many an expensive gift. Balls may be made from empty egg shells gilded, with a tinsel cord or bright ribbon pasted on to hang them by. Duck eggs are best for this purpose, being more showy than hen eggs.

#### A LITTLE GIFT.

BY PEARLE WHITE M'COWAN.

The quaint and humorous little booklets presented by two girls, having more wit and ingenuity than money, to their friends upon their birthdays last year, were very popular. Boys and girls alike vied with each other in a good-natured attempt to win their favor and receive one of the much prizes little burlesques upon their lives.

The booklets themselves consisted of several leaves of heavy brown or green paper tied together with ribbon. Printed



reference to some actual experience or The presents should be wrapped in peculiarity of theirs. One was "The Forwhite paper and tied with red and blue tune of Anna Deane," Anna's fondness ribbons. The base of the tree must be for having her fortune told being well and boys may be dressed in the general gypsy's fortune but never would tell what color scheme and employed to deliver the was told to her. The "Experiences of a Bad Boy" was given to one of the irrepressibles who was always getting into scrapes, and the pictures which followed off some of the smaller branches and the caused much hilarity among his friends, incubator while she is in town doing her tips of the larger ones, then wrapping for they hit pretty true in most instances. "What the Fire Fairies Revealed to Fred"

fire. When especially fitting names failed stove and, with the mixing bowl in one much?" there was always "The Biography of John hand and the spoon in the other, she Newman" or "Grace Steadman" as the stood helplessly case might be.

Wit, a talent for little pen-and-ink sketches, and a pile of old magazines fur- doorway. Turning she saw a young man nished the body of the booklets. The first holding out his hand in greeting and smilpages were usually given up to baby pic- ing as if sure of recognition, tures, a stork carrying a baby, presumably cut from some baby food advertisement, a tiny crying infant, or a comic I can't find anyone about the place but picture of fond parents examining the you and Yvonne and Barb'ry." first tooth, or father walking the floor in the night, with appropriate labels such as sure that you are one of the Beverly farming and, with real and fancied ail"John's First Journey," "The Squall," boys," she said slowly. "You resemble ments, had done as little work as she "John's First Journey," "The Squall," toys," she sald slowly.
"John's First Tooth," "Already Making Nell, but I do not know which one you "His First Tooth," "Already Making Nell, but I do not know which one you Trouble," etc., etc. Old magazines and are, unless you are Manning." papers can usually be relied upon to fur- He laughed. "Then I shall have to inpapers can usually be relied upon to furers. Then came pictures of "His First fore, but I was away the day you called Day at School" and "His First 'Piece'." and have been very busy since." In one instance the few quaint lines which he actually recited were written beneath answered, holding out a floury hand. the comic picture showing his fright. "The First Time He Saw Her Home" still following at a respectful distance. Swings, ball games, canoe rides, etc., funeral, and Yvonne and I are house-were all pictured out and comic rhymes keepers." or sentences appended. When magazines to draw a picture to fit.

inately over the page with a charming disregard for order, while in the center was a picture of a big boy which imagination said was "Him."

Summer Girl," "His Winter Girl," "His Witty Girl," "The Girl He Loved First," wedding scene and finally a young couple whether the egg is put in whole or seated at a table with a lively youngster beaten." between them, and beneath it "Johnnie Junior-The Absorbing Topic." And here it left him, presumably with the thought in a bowl and beat it separately while I that after the advent of Johnnie Junior, John senior would be relegated to a back

described one of the boy's books, but those received by the girls were equally witty and appropriate, while the "Diary of a Bad Boy" was simply irresistible.

### THE GATES OF BAKAPPLEIN.

(Continued from page 538)

leave the household affairs to the girl's willing but untrained hands.

Merle had willingly offered to get the She was sure that she could dinner. manage it alone, so she went bravely to work. The kitchen was invitingly clean, for Mary Baker had risen at four in order to bake her bread and do all the work she could before going away. She had laid the table for the men's dinner in the cosy little dining-room opening at the farther side of the kitchen. The kitchen floor was spotlessly white as ever, the range was like an ebony mirror and in the pantry the half dozen large loaves of fresh bread, with the pan of beautifully browned biscuits by the side of them,

spoke of her industry.

ing, but aside from a few cookies and a Nell had been around." half pie there was nothing else. She had neglected to ask Nell what she should cook for dinner so she tiptoed back to returned, wondering what she should do. As yet she had not washed the breakfast dishes they used on their table. That was the one thing she really had learned adventure with the hen she had forgotten washing Barb'ry in ivory soap. them. The fire had gone it in the range what is first?" and the water in the boiler was not more o'clock.

doughnuts for dinner when Yvonne pulled of sifted flour with the teaspoonful of kitchen clock. "It is quarter after eleven a chair over on her head, receiving such soda. There," and he deftly stirred the already. What else were you going to a bump that in order to quiet her screams ingredients together, mixed them into loaf have but doughnuts? Potatoes, I sup-Merle allowed her to bring Barb'ry into and proceeded to roll out preparatory to pose, and what meat?" the kitchen again.

It seemed easy to make doughnuts ac- astonishment. cording to the recipe. One by one she put the ingredients on the pantry shelf, made them any quicker or any neater,"

wondering what she should put in the bowl first when she was startled by a masculine voice in the housekeeping."

"Miss Merle Jackson?" he asked cordially.

She hesitated for an instant.

nish a number of quaint or ludicrous pic- troduce myself as Manning. I must apoltures of youngsters and their doting eld- ogize for not having really met you be-

"I know and accept your apology," she Lis will shake hands if you do not object to flour, but you see that I am trying to was written beneath a picture of a big- cook and I must confess I do not know eyed scared little fellow of six peering what to do first. Nell is crippled," she back to see if sister, the safeguard, was related the accident, "the Bakers have departed as unwilling mourners to a

"So I see. I wished to see Nell very suppose I am too blame for the Barb'ry One page was headed "Girls, Girls, affair for I gave that hen to Yvonne and, Girls," and sketches and magazine pic- so far, she has caused no end of misadventures of pretty girls, with penny pictures tures and episodes. Now what is it you of the donors, were scattered indiscrim- are trying to make? I am quite a cook. Will you let me help?"

She whisked one of Mary Baker's big aprons out of the drawer, which he donned "Now I will cook anything serenely. Then there was "His Pretty Girl," "His from a pudding to flap-jacks. What is it?"

"Doughnuts, and to save my life I don't know whether to put the cup of sour "The Girl He Loved Best," etc. Then a milk, or the sugar, or the egg in first and

> "We usually remove the shell," he answered gravely. "Suppose you break it mix the other things. But where are the eggs?"

"The eggs, why I had them here in a To make my meaning clear, I have basket! They are gone—basket and all," she said in bewilderment.

"You had better His eyes twinkled. interview Yvonne," he suggested.

She ran into the kitchen. There, on the patchwork cushion in Mary Baker's big rocking chair Yvonne was endeavoring to force Barb'ry to sit on a dozen eggs which she had put there for a nest, with the result that the indignant bantam had broken two or three and knocked the others on the floor, which Yvonne had finished smashing under her feet. She was smeared with broken egg, and the floor, chair cushion and hen were a sight, but the child persevered, crying and scolding until Merle forcibly took her away.

"Such a sight and such an awful mess," she cried, laughing in spite of her vexa-"Yvonne I have a good mind to tion. give you the hardest whipping you ever received for this scrape."

Manning was laughing heartily. He job." picked up the crying child, pulled off her soiled dress, carried her to the sink and washed her hands and face while Merle subsided into a quiet child on the high endeavored to clean up the muss. long as Yvonne did it, Mary won't scold very much," she said, "but she would not The girl looked around for other bak- have hardly dared so much mischief if

"Guess nobody ever makes her mind but Nell," said Manning, still laughing. "I know I don't and I don't believe you the sitting room. Finding her asleep she do either; but if there are any eggs saved from the scramble we must get at those doughnuts. It is nearly eleven now."

"Here are more and I will keep them so high she can't reach them. Anyway how to do, but in the excitement of the she will be busy for awhile, for she is Now

than warm, so she kindled the fire, filled is our old Beverly recipe true and tried. the teakettle with water and then busied I have made them myself several times." have to lock Mary Baker out of the kitchherself with the chamber work until ten He hesitated and his face grew sober. en. I am ashamed of being so useless, "First put the sour milk in the mixing but I find it hard to teach my hands to Yvonne had been with her constantly, bowl, then the cup of sugar and stir hindering all that she possibly could, and them well. Next the teaspoonful of ginwhen the girl returned to the kitchen she ger; that keeps them from soaking fat; ded dolefully. was dismayed at the lateness of the hour. then the teaspoonful of salt, a tablespoon-She hurriedly washed the dishes and had ful of melted lard, now the egg, which around if we have dinner by twelve just decided that she would fry some you have beaten enough, then four cups cutting before Merle recovered from her

en to gazing long and silently into the then she placed the kettle of lard on the she gasped. "How did you ever learn so,

"I had to," he answered laconically, proceeding to cut them out in neat rings. "Perhaps Nell has told you about our

The girl nodded. She knew the brief story of Manning's wedded life with its tragic ending, and how since February Merle Jackson?" he asked cor- he had been a widower with a baby "I am sorry to startle you, but daughter now two months old. And although Nell had never said very much about Manning's trials, Mary Baker had told her of the young wife who detested possibly could, with the result that Manning had been obliged to do the greater part of the housework while his farm had suffered woefully. And Mary Baker had not been averse to declaring that the good Lord knew what he was about when he called her away, for with her as his wife Manning would have been on the town in five years, she delighted in predicting.

There was an awkward silence. Merle did not know what to say and Manning was apparently in a blue study. She noticed that his face was thin and his broad shoulders drooped as if discouraged. He was not the same happy, round-faced boy she remembered of years past, but Yvonne furnished diversion by suddenly screamfailed, the girl with her pencil was ready much but I shall wait till she awakes. I ing that Barb'ry had flown into the water pail and could not get out.

Merle went to the rescue again and this time she carried a very wet and bedraggled hen outdoors and proceeded to change a dirty wet apron for a clean one on a rebellious little girl who was determined to bring the hen back into the kitchen.

"That hen shall not come in here again this morning," she said firmly, "and if Yvonne cries or makes any fuss she shall be set upon the broad shelf to stay until she is good."

"Yvonne won't be good," she declared, stamping her foot.

"Then up she goes!" Merle lifted her forcibly, carried her across the kitchen and set her on a high wide shelf. "That is where Nell puts her when she is naughty, and she has to stay there till she behaves," she explained.

"I'll give her a doughnut by and by," laughed Manning, "but they will never be done, Miss Merle, if you expect me to fry them in this lukewarm lard. I thought the kettle was over the fire."

"It was, but I set it back because I was afraid it would burn. It was smoking hot and I thought that warm lard would do," she explained hurriedly, flushing with annoyance at her mistake. see," she continued, "I really do not know how to do anything but wash dishes, and it takes me twice as long to wash them as it does either Mary Baker or Nell. But lately I have been gaining time. I am almost a minute a day faster than I was a week ago and if I keep on gaining a minute a day I shall have them washed sometime even before I begin," she laughed merrily. "And there is one thing more I can do and that is to clean harnesses. Ben says I beat Ned at that

"And you can do one more thing well," he added, indicating Yvonne who had "As shelf, "you can make her come to terms You must have learned that from Nell."

"I did," she replied, nodding her fluffy head vigorously. "The high shelf never fails to effect a cure. It is much better than whipping or scolding and it always brings her to terms, for she has to stay there till she is good."

"Yvonne good now," smiled the cherub.
"Uncle Manning take Yvonne down." She held out her dimpled arms and he lifted her off gently, rewarding her with a couof fresh doughnuts. He tossed one to Merle. "You will have to sample it yourself and see if they are good."

"Delicious," she cried, between satis-Manning was reading the recipe. "This fied bites. "I'm going to learn to make work properly. My head wants to work but my hands don't know how," she ad-

"You will have to hustle your hands o'clock," he cautioned, glancing at the

"I don't believe Mary Baker could have ham," she added confidently.

### EAGER TO WORK

Health Regained By Right Food.

The average healthy man or woman is usually eager to be busy at some useful task or employment.

But let dyspepsia or indigestion get hold of one, and all endeavor becomes a burden.

"A year ago, after recovering from an operation," writes a Michigan lady, "my stomach and nerves began to give me much trouble.

"At times my appetite was voracious, but when indulged, indigestion followed. Other times I had no appetite whatever. The food I took did not nourish me and grew weaker than ever.

"I lost interest in everything and wanted to be let alone. I had always had good nerves, but now the merest trifle would upset me and bring on a violent headache. Walking across the room was an effort and prescribed exercise was out of the question.

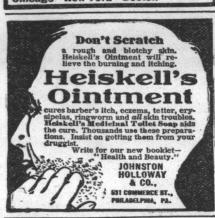
"I had seen Grape-Nuts advertised, but did not believe what I read at the time. At last when it seemed as if I was literally starving, I began to eat Grape-Nuts.

"I had not been able to work for a year, but now after two months on Grape-Nuts I am eager to be at work again. My stomach gives me no trouble now, my nerves are steady as ever, and interest in life and ambition have come back with the return to health."

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

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





### FOR YOUR HIDE'S SAKE

Have it tanned with the hair on for a coat, robe or rug. Moth proof, no smell. Freight paid on 3 hides. You furnish hide, we do all the rest and make coat for \$10.00 up. Robes \$5.50 up. Write for price list.

THE WORTHING & ALGER Co., Hillsdale, Mich

The Factories Sales Co. of 833 Wyandotte St., Kansas City, Mo., is making an offer to send a lamp, free to one person in each locality to introduce this marvelous, new, incandescent 100 candle power oil lamp. Simply send name and nearest express office.

pose, and what meat?"

"There is a big ham in the store room.
Perhaps we could boil it. I like boiled ham," she added confidently.

His laugh convinced her that she had

potatoes anyway, so I will get a panfut it was half-past one; the other men were to it. I'm hungry as a bear. Ben can and you can do what you please with the at work and Manning was in the sitting- swear if he wants to, but I'm not under ham," she retorted as she hurried to the room with Nell. She could hear their him by a jugful. There's Manning comcellar.

grease kettle and was slicing the ham. to learn what had detained him. 'I'm afraid that you will have to study up cook books before you boil hams," he said with a smile. "Now, can you peel potatoes?"

put the kettle on, then if there are any

en as sacred, and as Nell does not do ahead of me if they try," he boasted. much cooking I don't have any chance to Merle was troubled. She ventured a reeningly as she began to help with the potatoes.

She was disgusted at her slowness. Try anxiously. sitting room and found Nell still asleep.

"I shall not wake her," she said resothink it would be a lark."

Would I mind? Not very much, I ily in the neighborhood that did not. "It was the arrangement Searls' mother had to have the men eat at a separate table, folks do know we are working here." but I doubt if any other family in West

Winthrop could do so," he explained.
"Ned won't mind." she said as she quickly arranged the table. "I shall pour and I had here on the Jackson farm. He their coffee, that is, if they have any, thinks this is the only place on earth. He though I don't know how to make it," she cried in alarm, picking up her cook book.

"I can," he said, "and I pride myself on my coffee. You will find that I am a her father filled up to the brim on Searls' very handy housekeeper, Miss Merle. So hard cider when he was already drunk, I'm sure that L—n will be there; much for having considerable of such and then went home and killed his wife work to do;" his face was grave again. and himself, why Searls adopted her bework to do;" his face was grave again. The search and himself, why Searls adopted her bework to do; "And if I could learn a mere clumsy fore he was married. Did you know it?" "And if I could learn, a mere clumsy man as I am, why couldn't you?"

or any man again teach me cooking. Why, I don't believe I could boil the teakettle without the water scorching," she ought to be as good to his own kin. What laughed merrily. "I'm afraid the men he ought to do is to take me into partner. would have starved if you had not ap-

peared so opportunely." Ned had not yet returned with his boys were on hand promptly, subdued from their usual noise and fun at the sight of Merle presiding in Mary Baker's place and Manning in Ben's chair. The girl did not feel acquainted with them as Perhaps he'd give me a chance." they were around the house only at meal embarrassed in her presence. talked with Manning while she busied calling for Ned.

"I don't see why he isn't here," she answered perplexedly. "Where did you have thrown the farm up this spring if it hadn't been for Nell," continued Ned, There'll be the second edition of boys and the three young men who had been sociably. "He was pretty well cut up teaming that morning.

ago. Guess he's found somebody to swap horses with."

"He could not swap one of Cousin Searls' horses," she answered indignantly. blushing in spite of herself.

leaving her to wash the dishes and attend to the table. It was slow, hard work for her. She had never before entirely cleared away the dishes and food after a dinner. and she was dismayed at the sight of a full sink; nevertheless she went to work at them, making up in zeal what she lacked in knowledge. She was about half talk of class, too." through when she accidentally burned her

voices in earnest conversation. Leaving ing this way. Wait a minute," he urged, When she returned he had removed the her unfinished work she ran to the barn but she sped from him to the house, while

"Just talking, that's all," he replied light- to do. ly. It was a hot day for spring and he was not going to sweat the horses for She shook her head. "I can peel apples, anybody. Besides, he was not obliged to "When I was once in danger from so I suppose you do potatoes the same get back on the hour as the other men lion," said an old African explorer, were. He was as much his own boss as "Very much. Here, I'll help while you was Searls, and he should do as he had no weapons." pleased. Besides, he could make more more eggs in the house we will have fried money by trading than he could by work-panion. eggs and ham—good enough for a king." ing. He had nearly dickered his gun "Per "I don't believe I know enough to fry away at the shop. At night he was going an egg," she said hesitatingly. "You back to finish the bargain and thus make understand that Mary regards this kitch- about three dollars! "Oh, they can't get

learn, but I'm going to learn, and that as mark about his unloading the fertilizer quick as possible," she declared threat- properly. "If you don't, Ben will complain of you to Searls and then you can't shoes for \$5, discovered that he had only drive this span any longer," she said \$4 with him. He therefore asked the boy

as she might she could not make her He whistled indifferently. "Who cares? \$4 and return small, white hands fly as did his large, I don't like heavy teaming anyway. It is the balance." firm brown ones. But the potatoes were too dirty work, besides there is too much man walked off with the shoes. boiling and the ham frying almost before lifting about it. I am getting sick of the she realized it. Then she tiptoed into the whole thing. I was never made to work under anybody. If Searls would only let me drive some bargains for him I'd put man should never come back." "I know she was sewing for him in the way of more money than he Yvonne until late last night and conse- has seen yet. Just look at that three dol- confidently, "because I wrapped up two quently she needs her rest. Would you lars I made today. I've a good mind to shoes for the left foot." mind eating out here with the men? I chuck the whole thing and be independent."

"If you do you will be sorry," she anthink, when we always have our men eat swered. "Just see what you are getting with us," he answered. Then he ad- for working. You can't expect, now that ded that the Jacksons were the only fam- you are as poor as anybody, that you can get along without working for a living. I don't expect to, and it is something to made, and it had worked well with them have this lovely home. I don't care if To

"Guess they know it all right," he answered. "Old Joe Green was in the shop and he was bragging about the snap you was telling me a lot about how Searls came to adopt Yvonne. Her folks were the Benoits, you know, and just because fore he was married. Did you know it?"

"You heard my declaration," she re- about it and I think it was a lovely thing turned decisively. "I shall never let you for Searls to do," she said warmly. "Yvonne is the dearest child on earth."

"That's right," agreed Ned. "but he ought to be as good to his own kin. What he ought to do is to take me into partner
"That's right," agreed Ned. "but he fif I do leave this year, he ought to do is to take me into partner
So I'll s— up and veer ship with him on this farm. I've as good a business head as he has. But he won't do it; he thinks I'm nothing but a boy,' team; he was late, as usual, but the other he said disgustedly. "I've half a mind to go over and see Bob Beverly at Win- We'll have Tthrop. He is Nell's brother, the oldest one of the boys, you know. He married a rich girl and is in the lumber business.

"You won't do any such thing," she retimes, and they in turn felt awkward and torted. "You will stay here as you agreed to, and when the Beverly fruit wagon starts you will drive it. You promised herself with Yvonne who sat by her side Nell you would do that for she is to run in her high chair and suddenly began her market wagon also. Manning is in her market wagon also. Manning is in the house talking with her about it."

over the death of his wife and he wanted "He stopped at the blacksmith shop to to rent the farm in spite of his grand-have a shoe tightened," he explained, "but father's opposition. That's why Nell is that ought to have been done an hour helping him run it this year. Did you say he was in the house? How long has he been here?"

"He helped me get dinner," she replied,

She was more disturbed than she cared after all, Manning is a fine fellow and so to show over his absence, but she made are the other two boys who are away at no further comment. As soon as the din- college. Old Joe Green says his sister, ner was over she was relieved when Man- Madaline, will be home from college this ning went immediately out with the men, summer and keep house for him. Then you will have some society. The other sister, Lucille, married a professor, so you see there is some class to the Beverlys."

"I am not blushing," she returned. "I've nothing to blush about. That's where you ought to be-in college. Then you could

"Smart men do not need to go to colhand. While wrapping it up in a lini- lege. I can make money without it. Come being ment-soaked cloth she heard Ned driving on to the house. I shall let the boys un-

made another blunder. "Well, we boil into the barn. She glanced at the clock; load this fertilizer when they get around he sauntered after her, absolutely indif-She did not obtain much satisfaction, ferent to the work which he was expected

(To be Continued).

"When I was once in danger from a tried sitting down and staring at him as l

"How did it work?" asked his com-

"Perfectly. The lion didn't even offer to touch me.'

'Strange! How do you account for it?' "Well, sometimes I've thought it was because I sat down on a branch of a very

A customer having bought a pair of who had made the sale if he couldn't pay \$4 and return the following day to pay The boy agreed, and the

"That was a very foolish thing to do," said the proprietor, when the boy told him what he had done. "Suppose the

"Oh, but he will," returned the boy

### KINKS.

Christmas Kink-Bob's Letter Home.

Fill in blanks with names of common

My dear mother, the city now is grand,
But I p— for my old country home,
To b——eered by your dear old face;
It tempts me r— to roam.

I long for a sight of a— d—r,
And the d—— be good to see;
To have M—— my hair as of old
Would be like b—— to me. in hand I hold, I'm thinking might

What jolly good times we'd have, nd how p—— I would be If I'd show up, you see.

Across the continental divide, To p— the scales from off old time, And land again a boy beside The meals that mother used to find.

We'll have T—— put on the sled—
A b—— n't do, 'twould be too small—
We'll line it well with robes and straw,
Hook on the b—s, restive from stall.

We'll have a C-Just as we used of yore,

We'll find s—— g——s and other sweets Stuck on its twigs, and more.

We'll play the same old Christmas jokes On each other, yes, we will; And, father and mother, you'll raise your And call us the same old h-

Prizes for Straightening Kinks Prizes for Straightening Kinks.—To the sender of each of the ten neatest correct answer's to the above Kink, we will give choice of a package of 50 postcards of general interest, an imported dresser scarf, or a lady's hand bag. Where contestant or some member of his family is not a regular subscriber a year's subscription must accompany answers. Answers must not reach us later than the convergence solutions will be pub-"He likes to talk swap though. He is as much of a trader as Jackson himself, but if he don't make his two trips today he will hear from Old Ben," he chuckled. teasingly. "You are a goose Merle. Well, Farmer.

> Answers to Nov. 5" Kinks, Kink 1. Kings of Israel Rebus.—Solomon, David, Omri, Jehu, Pekahiah.

Kink II. Floral Journey.—Johnny Jump-up, four-o'clock, Wandering Jew, Jack-in- the-Pulpit, Bouncing Bet, aster; high in- the-Pulpit, Bouncing Bet, aster; hickory cane or gentleman's cane; Indian
pipe or Dutchman's pipe, bluebell or Canterbury bell, Ragged Robin, poor man's
purse or shepherd's purse, love-in-mist
or balm of Gilead; bleeding heart; thyme
or heartsease or balsam; bachelors' buttons; Spanish needles or Adam's thread;
Lily, Rose, foxglove.

No Prizes Awarded.

None of the answers to Kinks of Nov. entirely correct no prizes were awarded.

### **Bargain In Pocket Knives**

For \$1. I will send postpaid two strong stag han brass lined pocket knives worth 70c each or one lef for 50c. Length over all 6% inches, one large I and one punch blade, silver shield. Invaluable farmers and carpenters. Responsible refers ners and carpenters. Responsible refersished. GEORGE MUNRO.
m 1214, No. 41. Park Row, New York City.



ICE PLOWS

### FARMS AND FARM LANDS FOR SALE OR EXCHANGE

FOR SALE-160 acres, 100 cleared, buildings, mail route, telephone. Well located. Price \$4800. E. G. Gilbert, West Branch, Mich.

Farms For Sale Sto \$100 per acre. Stock Dairy and Truck farms. D. R. REES, 724 Dollar Bank Building, Youngstown, Ohio.

For Sale 50-acre farm, II miles from Detroit. Soil fer-tile. Buildings good. Other improvements. Address Chas. E. Smith, Redford, Mich. R. F. D. No. 3.

I SELL FARMS in Oceana, best County in United States. Fruit, Grain, Stock, Poultry. Write for list. J. S. HANSON, Hart, Mich.

\$4,500 buys 186 acres, \$2,000 worth timber, first-class build-mile church, creamery and twent. Creek road ½ mile to school, 1 mile church, creamery and town, \$2,000 cash, balance time Write for other farm bargains. Valley Farm Agency, Owego, N.Y.

780-ACRE \$5,000, terms. Log house, two log barns, 6 miles fence, ance spring watered for Michigan farm. Wilson Walter, Terry, Mont.

120-ACRE FARM One half mile east 100 acres improved, good buildings and fences. 500. an acre. J. E. CLARK, Milford, Michigan.

Free 200 Page Book About Minnesota Minnesota's splendid opportunities for any man. Sent free by STATE BOARD OF IMMIGRATION.

Room 269 State Capitol. ST. PAUL, MINNESOTA.

120-ACRE STOCK and DAIRY FARM FOR SALE. Oakland Co., 8 miles Northwest of Pontiac, 1% mil north of Waterford Station. Good Buildings, 9-roo house, 2 cellars, basement barn 60x70, windmill, 10 ton silo, well watered and fenced. 12 acres of timb no waste land. M. C. MOON, Clarkston, Michigan.

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In Missouri and Arkansas.
In Louisiana and Mississippi.
And in 15 other states. East and West. Send for our free list if you want to buy a farm anywhere. No trades. Ask MCBURNEY, STOCKING & Co. 277 Dearborn St., Chicago, Illinois.

**Fertile Farms in Tennessee** \$5 to \$10 per acre-

Fortunes are being arms raising big crop cost every kind, also Costs, String Beans, Gr Cattle, Sheep, Swine, Politry and Eggs. Write me at once for Free Literature, which advises how to get one of these splendid farms for \$5 to \$10 per acre. Act quickly! H. F. Smith, Traf. Mgr. N. C. & St. L. Ry. Dept. P. Nashville, Tenn.

#### 250 Acres \$6,000. Stock and Tools Included.

Stock and Tools Included.

The owner of this property last year sold 1036 bushels oats, 3200 bushels potatoes, 1420 bushels buck-wheat and 75 tons of hay, he has made this farm pay a big profit but is compelled to be relieved of the care of it immediately. 200 acres in mostly level fields, rich dark loam soil, 50 acres in wood, timber and pasture, 6 apple orchards and other fruit, 2-story 9-room house, 5 barns, running water in all and other buildings, 1 mile to school, 3 miles to churches, stores and creamery. If taken immediately will include 5 horses, colt, harness, wagons, and valuable complete set of farming machinery, 8600 takes all, part cash, easy terms. For details of this and other farm bargains see page 31, Strout's Biggest Farm Bargains, Just out. Copy free. Station 101, E. A. STROUT, Union Bank Building, Pittsburg, Pa.

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### ABAS WITH SCROOGES.

HRISTMAS Yuletide conjures up pictures of men and a bad dream or a single prick of constrings, vying with each other in an ef- of his way and his family pass Christmas fort to see which shall spend his money after Christmas with not so much as a quickest. Giving is the thought upper- spray of holly or an extra dish for dinner most in each mind, even though it is to give them a hint of the day, couched in this way, "I must give to \* \* \* Mary because she will give to me." We never think of the Scrooges, at least we such conditions exist. It not only robs never do unless they are brought right the little folks of the good times which home to us. But all the same, I am sure are theirs by rights, but keeps their there are hundreds of them living right father before them always in a light around us city folks and hundreds more which is not at all enviable, to say the scattered over the state.

extravagances have But in real life it doesn't work that way. been the theme of writers for so The lord of the manor never sees a ghost, long that the very mention of never loses his favorite child, never has women hurrying about with untied purse- science. He just keeps on the even tenor

It is a positive crime to childhood that least. Children are always silently weigh, Every community has its Scrooge, and ing their parents, little as the elders sus-it is to that gentleman I am going to pect it. The boys and girls from cheer-

Johnnie Jones always has a Christmas

a sure sign his father has money. The

meanness and avarice is apparent in a

of the wealth they incrited.

the most desirable thing in life. For

starved childhood will be stronger with some, money stands ahead of everything them on their death bed than the thought else. But I would rather have the love and respect of one small child than the Of course, each has his idea of what is bank account of a Morgan without it.

### A GLOVE PROTECTOR and OTHER GIFTS

BY MAE Y. MAHAFFY.

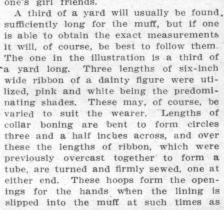
Every one who carries a muff knows from pasteboard measuring eight inches how quickly the lining becomes suffi- in diameter, and this is covered on one ciently soiled to readily mar the purity side with the material, embroidered linen, of a new pair of delicately colored gloves, figured cretonne, tapestry, which is the even if worn but a few times. This may most popular material for fancy work just in a large measure be avoided if a dainty now, brocaded satin, silk, sateen, or any separate lining is provided for the muff for the special occasions when such gloves are requisite. These linings are easily made and will provide charming gifts for one's girl friends.

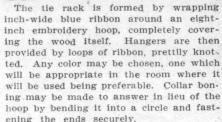
wide ribbon of a dainty figure were utiboning are bent to form circles tube, are turned and firmly sewed, one at either end. These hoops form the openings for the hands when the lining is it may be needed.

Two simple, easily fashioned, yet decidedly acceptable gifts for the boys of the household are shown in the other illustrations. Either may be made by with the even inexperienced workers needle.

inch embroidery hoop, completely covering the wood itself. Hangers are then provided by loops of ribbon, prettily knotted. Any color may be chosen, one which will be appropriate in the room where it will be used being preferable. Collar boning may be made to answer in lieu of the

not essential, although any embroidery hundred ways and the respect of his design may be utilized. However, if one I don't like to meet these men at any children is gone forever. Outwardly they is not familiar with fancy stitchwork, or has no time to devote to it, other backwardly they despise him and always will, ground fabrics may be brought into use no matter how many farms he may be- which will not only look dainty, but will





every purpose.



Dainty Muff Lining for Protecting the Gloves

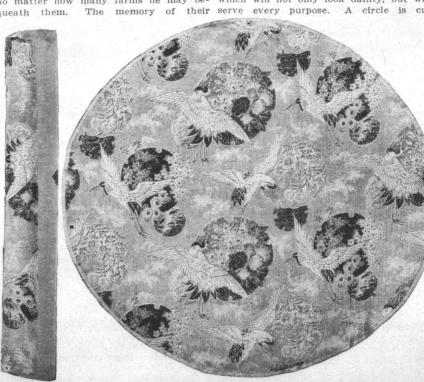
preach. You spendthrifts get your ad- less homes unconsciously measure their monitions from your family, friends, and parents by the parents of their playmates.

"Bah!" said Scrooge, "Humbug!" when dinner at his house and loads of presents, his nephew ventured to wish him a "Mer-And his words are re- Scrooge children have nothing, therefore ry Christmas." peated with variations when these other their father can not have money, there, Scrooges hear timid, childish voices men- fore he is not as smart a man as Mr. tioning the happy, happy day. Christmas Jones and thus he falls in the respect of hoop by bending it into a circle and fast-to these merry gentlemen means but a his children. As they grow older they ening the ends securely.

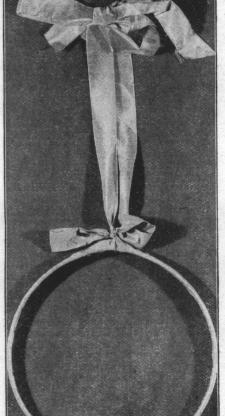
The whisk broom holder shown is emmore sour and a bit more tightfisted than but because he will not spend it. His broidered in quaint fashion, but this is at any other time of the year.

may respect him through fear, but intime and it is my honest belief that every living thing feels the same way. Their children close up like clams when they The wife, a cheerless enough queath them. being at any time, is a bit more colorless and subdued in their presence. The dog, if one is allowed to exist on the premises, crawls under the porch when the master approaches, and the cattle make themselves as inconspicuous as possible when he approaches the barn. This throughout the year. But when Christmas approaches the spiritual atmosphere of the home grows even more frosty than the air outside. The little ones hear the other children planning at school for the Christmas tree and goodies. They beg their mother for a tiny bit of Christmas cheer and she, poor woman, knowing the futility of appealing to her husband, puts the little brood off with stories of a bad year and no money, though she knows there is money enough in the bank which she has helped to earn, to give her children the finest Christmas spread of the community.

I never can understand the attitude of these Scrooges, nor for that matter, of the Mrs. Scrooges either. How any man can go through life turning everything to vinegar, grinding his family down to the barest necessities, denying them the most innocent pleasures so that he can add a cent more to his bank account is a mystery to me. And it is a bigger mystery that the wives can sit tamely by and let them. In story books something always happens just before Christmas to make the miser loosen his grip on his gold.



Doily Roll and Cover.



A Neat and Serviceable Tie Rack.

other medium weight goods of pretty pattern and coloring. It is best to glue this material to the cardboard with library paste, but do not use paste which will run through the material and rui its colors. If one is not sure on this point try a small scrap first, or sew the fabric into place by overcasting it to a similar circle laid over the wrong side. If glue is used a circle of paper will answer for the wrong side, its edge covering that of the fabric.

An oblong piece of the pasteboard six inches long and a little more than three inches wide, is then covered in like manner. A half-inch from each end holes are punched, those in the material being buttonholed to prevent ravelling. Measedge of the circle a two-inch row of corresponding holes are made at either side. Ribbon about an inch wide of a suitable shade is then laced through these holes, securely fastening the oblong strip to the circle in such a manner that it bulges away from the circle a trifle, this space being for the broom. Ribbon hangers complete the useful little article. Children sometimes are able to make similar gifts of wall paper, and even these are often very attractive in appearance, though by no means as durable as the stronger fabrics.

Every housewife knows that to fold linen in such a manner as to form decided creases is not only very wearing on iroing whenever the article is to be used. knife. Some possess wide drawers in which all

together over the openings. The doilies pan and cut into bars. are then laid on the circular piece of all are rolled together smoothly. A length

circle or left free, as the worker prefers.

If one has no tube of the necessary length it is usually possible to secure them at book stores, but if even this fails the candy and passing the finger, which



An Attractive Whisk Broom Holder.

smaller than the tube at hand, thrusting the end into the tube, allowing the remaining end to project to the required A few stitches will hold it in place. Entire tubes are often made by rolling stiff paper, or light-weight, easily handled cardboard. Several thicknesses of crinoline will also answer the purpose.

### CHRISTMAS SWEETS.

BY FRANK H. SWEET. pounds of sugar, one-third teaspoonful a greased pan, and when cool cut into utes. bars. It should be one inch thick when of sugar, one-third teaspoonful of cream greased pan and cut any shape wished. before until sugar granulates; empty into not understand. Teach them to be contained any shape wished. before until sugar granulates; empty into not understand. Teach them to be contained and pared, cut into sieve and shake off any loose sugar. Have siderate in little as well as big things, and possibility of error.

such pieces may be laid out perfectly flat pare and slice with a sharp knife two Then add to the little remaining sugar and that it is meant to supplement man's and smooth as soon as laundered, but not fresh cocoanuts; place on slow fire one the gum-arabic and set on fire; stir and without it the real aim and profit of every one is so fortunate. For those who pint of New Orleans molasses and two quickly until sugar dissolves, then set off man's work is lost. In this connection, must make a limited amount of drawer ounces of butter; when it boils add the and throw in nuts; stir carefully until all show them what is the wife's right in respace answer all purposes the doily roll cocoanuts; stir all the time over a slow are coated; spread in one layer on a pan gard to the family income and by compictured will prove a blessing, indeed. fire until it reaches soft crack in winter and set in a warm place to dry. Peanuts mon ownership of many things accustom Cut a circle of cretonne, sateen, linen and hard crack in summer; pour in a and filberts can be treated in the same the boy to the use of the pronoun "our" or crepe cloth large enough to accommo- greased pan, spread thin with knife and way as the almonds, but are not so nice. so his wife may be spared a very comdate the largest of the doilies or center- cut into bars. A good recipe for fruit bar pieces, and bind it all around with wash- is the following: Two pounds of sugar, ed cocoanuts, one pound of confectioners' able silk tape or binding ribbon in some two-thirds cup water, one-third teaspoon powdered sugar, and the grated yellow harmonious color. A strip of the mate- cream of tartar; cook to a hard crack, rind and juice of two lemons; work torial is then overcast around a mailing and add carefully one pound of candied tube of almost the same length as the fruit, such as pineapple, cherries, figs and of an English walnut. In the center of diameter of the circle, the ends being seeded dates; stir slowly until the fruit each cake put a small piece of citron; turned in, gathered and drawn up close slides off spoon easily; pour into greased

Good cocoanut bars can be made as folcloth, the roll placed near one edge, and lows: To two pounds of sugar add one of granulated sugar and one teacupful of pint of water; set on fire and when it of the tape or ribbon secures the roll. boils add one freshly-grated cocoanut and turn yellow. Do not stir while boiling. This may be attached to the edge of the stir until "thread" degree is reached, or Have ready one-half pound of almonds by the thermometer. To determine this degree try after the sugar has boiled a few minutes by raising the spoon from a short one may be lengthened by rolling has previously been dipped in cold water, and quickly pour into a well-oiled tin across it, retaining on the finger some they are separated, which breaks and settles on the thumb, this degree is reached. out easily. Then take the candy off the stove and pan with the spoon until it begins to look cloudy; continue this until the whole batch and one pint of water; cook just to a ready, so great care must be taken. thread, stirring all the time; remove from Delicious pan creams may be made the fire and rub sugar on the sides of the basin until the sugar just begins to turn cloudy. Now with a tablespoon dip a spoonful from the pan and drop on the sugared pan, removing it from the spoon by means of a fork held in the other hand. Molasses Cocoanut Cakes.-Put into a

basin one pint of New Orleans molasses and one-fourth of a pound of butter; place this on the fire, and when it boils add one freshly-grated cocoanut; stir until the batch reaches hard ball. Have a very slow fire, as the candy becomes very thick before it is done and burns Pour into a greased pan and spread of even thickness with a knife; when cold cut into cubes.

Cocoanut macaroons are made from the a flexible piece of cardboard a trifle white of one egg, one freshly-grated cocoanut and one-half pound of pulverized confectioners' sugar. Work into a stiff paste and form with the hands into small cakes. Lay these on buttered paper; dust them with powdered sugar on the top and put them in a hot oven; as soon as they brown a little remove them and set away

Burnt almonds are rather tedious to make, but when well done will repay one for the labor expended. Shell one-half pound of good almonds, and dust well To make brown almond bar, place two but do not blanch. Place on the fire one pound of sugar, one-half pint of water, cream of tartar and two-thirds cupful of and when it commences to boil add the water in a granite saucepan; when it be- nuts and stir until the nuts begin to gins boiling add one pound of almonds, crack. Then place the pan on the table stirred in slowly; boil until the nuts are and with a spoon work the syrup on the as brown as desired, which will be when sides of the basin; stir the candy thorthey will slide off the lifted spoon easily; oughly and quickly until the sugar granpour the candy until an inch thick into ulates, which will require only a few min-Throw the whole batch of candy strips with a hammer and strong knife, into a flour sieve and shake off all the Blanched almond bar is made in the same loose sugar; then place a flannel cloth way as brown almond only that the al- over the nuts to keep them warm. Put monds are blanched. Peanut bar may be on the fire the sugar sifted from the nuts made similarly, using two pounds of pea- and one-half pint of water, and add what we have, served in a simple manner nuts instead of one. Brazil-nut bar may enough sugar to make the whole amount and if they are considerate people, they be made with two pounds of sugar, one- of sugar one pound; cook to a soft ball, will enjoy the meal far more than if they are worn. Here is one that is very thirds cupful of water; cook to hard candy into ice water, and when the candy ber of people who were obliged by circrack; pour out one-half candy into a can be gathered between the fingers into greased pan, then scatter over this one a soft ball the desired degree is reached. pound of Brazil nuts, after having trim- Take the basin off and throw in nuts; stir med the brown skins off; add to the top as before until sugar granulates again; and milk served on the kitchen table. the rest of the candy; when cool cut into this time most of the sugar will adhere to the nuts. Again retain the sugar which done. English walnuts may also be used remains after sifting, adding sugar enough with good effect. Delicious sliced cocoa- to make one pound; put on the fire with nut bar is made by cooking two pounds water enough to dissolve; cook to a soft ball ;set off and add a little red color and hard crack, then adding slowly one sliced heated quite hot; stir this through batch be all their lives learning that they and the office of the Michigan Farmer. cocoanut; stir carefully; then pour into and throw nuts into candy again; stir as not their mothers, are the ones who do greased pan and cut any shape wished. before until sugar granulates; empty into

To make cocoanut drop, take two gratgether well and form into drops the size place on buttered tins and bake in a hot oven until the tops are brown.

To make French nougat, boil one pound water over a sharp fire until it begins to blanched and dried. Put them in the are to be their wives to spend time to oven and leave door open; when they begin to look yellow add to the candy as it reaches the turning point described above, or iron pan about one-half an inch thick. of the syrup. Then join the finger and Mark with a sharp knife into bars before keepers, instead of flirting thumb and if a thread is formed when it cools. By bending the tins between pretty face that comes along, it cools. By bending the tins between pretty face that comes along, leaving the the hands slightly the candy will come

To make almond rock, cook one pound work the batch against the side of the of brown sugar and a teacupful of water to consider it an honor and fall into until the thermometer shows 290, or when them. dropped in water and taken between the becomes a thick white mass. Pour out on fingers it will crack like an egg shell, mothers, who can blame girls for not a pan on which powdered sugar has been Flavor with lemon. Clean one-half pound sifted; spread with a knife until of even of almonds by rubbing between two cloths they can see no use for it in the future, thickness, and when cold cut into bars but do not blanch. Slightly warm the since most boys now are taught, "Oh, as sold in stores. This may be colored nuts and pour as many into the candy as pink or yellow, if preferred, in which case it will take, then pour into an oiled pan Have a good (?) time," and alas! too ofcoloring is added in the pan just before two inches thick. Cut with oiled sharp ten taught that that liberty should belong Cocoanut cakes are made in knife into bars beofre it is cold. Both to a man, even if he is married. Too much the same way as the bars. Take of the above candies will burn if left for often they hear matrimony treated only one pound of sugar, one grated cocoanut a moment on the fire after they are as a joke or worse. Teach your boys to

> Delicious pan creams may be made by boiling three pounds of sugar, one pint of to learn to be a housekeeper, home-keepwater and one-half teaspoonful of cream er, wife and mother. of tartar to a soft ball. Let it cool, and then add a little orange flower water and stir until white. Pour into a pan and when cool mark into squares and break apart. Other flavors and colors may be used.

Butter-scotch of a delectable quality may be made by cooking three pounds of sugar, one-half cupful of molasses, onehalf teaspoonful of cream of tartar and four ounces of butter until it reaches crack; add a few drops of flavor and pour into a greased pan and mark into squares,

Glace nuts and fruits, equal to any confectioner's, may be made by cooking two pounds of sugar, one-third teaspoonful of cream of tartar and one-third quart of water to hard crack; pour into deep pan; place the pan at the side of a marble slab or another flat pan; throw into the syrup, one piece at a time, the nuts and fruits which you wish to glace; remove them with a fork and drop on the slab or pan. Candied fruit, such as cherries, pineapples, limes, apricots, etc., can be cut into squares and dipped, as can walnuts, Brazil nuts, dates and figs. Fresh Malaga and California grapes, tangerines and sections of oranges can also be glaced if you are careful to select only such fruits as have skins to protect the

### ABOUT SEVERAL THINGS.

Aye! Aye! To J. B. D.'s article anent the service on the farmer's table. If our friends come to see us, they do not want us to spend all our time serving a dinner and washing dishes on their account, and if they come for what they get to eat, why should we care whether they come at all or not? Give them the best of even if it were nothing but johnny-cake

published about teaching boys to be hus. comes in all colors. bands and fathers. Fortunate is the mother whose husband's practice aids her in this teaching; for, say what we will boys are apt to feel that mothers, being women, do not understand and they may

the linen, but also creates unnecessary halves and sliced very thin with a sharp ready a small amount of gum-arabic dis- and it will become a habit that their solved in a little water kept warm on the wives will bless the mothers for. Teach To make molasses sliced cocoanut bar, back of the stove until ready to use, them the true value of woman's work, mon, but sharp sting, in their relations.

Don't allow a boy to be unnecessarily critical. Many a bride who really did well, has been discouraged because didn't taste like mother's" when, in all probability it was not meant to hurt. Our tastes are not all alike and why shouldn't the man do his share toward a "mixed ration," you might call it.

Teach boys to want and expect to have homes of their own some time and that crops of wild oats are not good foundations for them. Above all, teach them to be fair. If they expect the girls who prepare themselves to be good housekeepers, they should do their share toward encouraging it by showing that they appreciate the qualities in girls that go toward the making of good homewith every real girls to be wall-flowers till such times as they may choose to hold out their arms expecting the well trained girls

Aside from the desire to help their wanting to learn to keep house, when don't tie yourself down. See the world. be husbands and fathers and you will not have any trouble getting the average girl

#### A DAINTY APRON.

Aprons are an absolute necessity and one can hardly have too many of them. Of course, variety of design is essential because of the various occasions on which



cumstances to live in hotels, and how each in one piece, joined together by a. they always enjoyed a simple, home meal, belt. A pocket at each side is useful as of calico, gingham, or white lawn and I heartily agree with the article recently the edges may be bound with braid which

The pattern (5160) is cut in one size. To make the garment will require 21/2 yards of material 27 inches wide, or two vards of 36-inch material. The pattern can be obtained by sending 10 cents to

### Milk as a Food and a Disease Carrier-No. 31.

By Mrs. Alta L. Littell.

ILK has been called a perfect warn everyone to refrain from uncooked food, and in a way it is. adults were to attempt to live injunction is, it is certain that it would upon it solely, trouble would probably absolutely prohibit the spreading of disan adult would have to drink so much to tagion or infection by milk, too much obtain the carbohydrates he needed that stress can not be laid. Milk, and butter, he would secure more protein and fat too, readily absorb vapors and carbohydrates.

The milk of different cows varies so greatly that a true analysis is difficult to get. A fairly accurate one shows milk to contain 4 per cent protein; 4 per cent fat; 4.5 per cent sugar; 6 per cent salts, 87 per cent water. The salts are chloride and phosphate of soda, potash, lime and magnesia, and a little iron, but not enough to make it a perfect food for

The fat of milk is readily seen as cream. Cream is composed of small globules of fat presumably covered with an albuminous membrane which is broken up by churning, allowing the fat to run together in the solid mass we call butter. The buttermilk which is left contains the same constituents as milk but in different proportion. Of course, most of the fat is gone and much of the sugar has been turned into lactic acid. The composition of buttermilk is 90.6 per cent water; 3.8 per cent casein; 1.28 per cent fat; 3.38 per cent milk sugar, and .9 per cent ash. Buttermilk is a favorite beverage with many, and it is often a good drink in case of feverishness.

The sugar in milk is different from beet, cane, or maple sugar, and in the case of bottle babies it should be used instead of such sugar if the milk is to have sugar added.

Milk to be fed to infants should always be sterilized, first, because it is more destroyed by sterilization. For ordinary Some writers go so far as to solemnly sour in the same time as ordinary milk.

Yet if milk. However necessary or wise this

has absorbed sewer gas. It should always be kept in a cool, sanitary place where there is absolutely no chance of bad odors and gases. Scarlet fever, diphtheria, typhoid and other serious diseases are frequently spread by milk which has taken up the germs of these diseases. Cows sometimes have a disease resembling scarlet fever, and milk from them at such a time has been the cause of an epidemic of scarlet fever among the consumers of the milk. Dairymen who have such sickness in their family should see to it that no exposed person go near the cattle or milk, and that nothing from the sickroom be allowed to pollute the water supply or milk. One mother who ignored this rule and bought milk for her baby from a scarlet fever home, today mourns the loss of the infant.

Milk, either alone, in eggnogg, gruels. junkets or with puddings is an important article of food in most sickrooms. There are few forms of sickness which call for to be stricken from the dietary. For infants, cow's milk unmodified is hardly a suitable food as it is unlike human milk in composition. The curds are more difficult of digestion, and something should be added to render them more digestible. Occasionally a baby is found who can not take cow's milk, however modified. For them condensed milk is sometimes good. It should never be tried except as a last resort as it contains digestible, and second, because, being an too much sugar to be an ideal food for inanimal secretion, it is peculiarly liable to fants. Condensed milk is made by first take up disease germs which are only evaporating the water, then adding sugar, sterilizing the milk and hermetically sealpurposes it need not be boiled. Simply ing it. Evaporated milk has less water raise it to a temperature of 155 degrees removed and is unsweetened. Condensed and keep it there for five or ten minutes. milk will keep for days after the can is double boiler is necessary for this, opened while the evaporated milk will

I cannot help thinking that where there is not the pleasantest of relations between the mother and her new daughter-in-law Not long ago I was talking this over it is as much the older woman's fault as any one's. Of course, there will be little things which she must expect to yield. There will be times when it will seem as if she is taking second place, she who has suffered and borne for him all these years and whose right heretofore has been unthat it seemed as if she could never en- challenged. But after all, what does this amount to! The affection is there just the same, for a boy's mother will always be mother to him, no matter who else may come into his life. And the best thing for her to do is to open her arms wide and take the new daughter right to her heart and keep her there. Let her feel that she has two mothers now instead this line, I had a good friendly talk with of one. And she must be a queer girl if tion. This course is much better than to maintain an aloofness as trying to one that the thought should surmount every der misunderstandings and hard feelings

Take it from me, mothers of sons who furthermore, nothing can cement the bond

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### ERS-IN-LAW.

BY ELLA E. ROCKWOOD.

IVES there a woman however unredly her own for so many years?

Women who would scorn the mere thought of jealousy, who give up gladly as possible. their own flesh and blood to be of one flesh with another, cannot, after all, entirely suppress this feeling.

with a friend whose eldest son is soon to marry and go out from the parental home into one of his own. It is the first marriage among her children, for this son is her first born. To me she confessed with just a suspicion of tremor in her voice dure it in the proper spirit. This woman being a true mother, realizes that the course her son has taken is the only one she would have him pursue. She would not have him go through life unmated, yet it seems like tearing her very heart strings to permit it.

Claiming priority of experience along her, and when we parted I think her heart she does not prove worthy of such affecwas lighter. Her boy has chosen wisely and will undoubtedly be happy in his new life. This in itself is such a blessing as to the other, which is so apt to engenother. After a time she will forget the twinges of heartache brou ht about by his seeming transferance of affection and welcome in fact, as well as in form, the daughter wants you to love her just as new member of the family with all the love of her noble nature.

One of the things which she said to me severance of home times in the case of a open arms. son who marries, that he is more apt to enter the family circle of his bride than is she to come into his. In other words, "A son is a son till he gets him a wife,

In some instances this is undoubtedly of errors.

A LITTLE PREACHMENT TO MOTH. true, but much depends upon the attitude to go to almost any length rather than cause the slightest feeling of difference between "your folks and my folks." while she cannot be expected to realize exactly how the mother feels-for which selfish who has not felt a tinge of one of us older ones ever gave it a resentment when her child gave to thought when we married-still she cananother the first place in his heart, sac- not help knowing that John's mother is as dear to him as is her own to her and will try to be as nearly a true daughter

are about to be married, that your new much as you want her to love you. And between your boy and yourself more surely than to show him that you are in the course of our conversation was pleased with his choice and that you welthat there usually is more or less of a come his wife to the family circle with

### CHRISTMAS THE What would be better, or more appropriate as a gift to Mother, Daughter, Sister, or Friend, than a NEW HOME, the sewing machine of

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UNFERTILIZED

(Continued from page 536).

was investigated by the Department, the farmer receives a scant 50 per cent, or one-half of the price paid by the con-The railroads get about 7 per cent, so that the remaining 43 per cent of the consumer's price is received mostly by the retailer.

"The milk wagon of the retailer has a long route. It stops at a house or two in one city block, perhaps passes several blocks without stopping, and so proceeds to serve customers thinly distributed along a route of miles. At the same time the milk wagons of other retailers are covering various portions of the same route, and so there is a great waste of effort and of expense in the distribution."

The farmer receives hardly more than half of the consumer's price in the case of poultry; 69 per cent in the case of eggs; cabbage 48 per cent when bought by the head and 65 per cent when bought by the pound; celery, 60 per cent when

bought by the bunch.

by the head and 65 per cent when bought by the pound; celery, 60 per cent when bought by the bunch.

The apple grower receives 56 per cent of the consumer's price when the purchase is by the bushel and 66 per cent when by the barrel; the strawberry grower gets 49 per cent of the consumer's price in purchases by the quart, and 76 per cent when by the crate. When the consumer buys a peck of onions at a time, the farmer receives 28 per cent of the retail price; when he buys a barrel the farmer receives 28 per cent of the case of oranges, when the purchase is by the dozen the grower receives 29 per cent of the consumer's price, whereas, when the purchase is by the box the grower gets 59 per cent. The rule seems to be, the smaller the retail quantity the smaller the farmer shape of the consumer's price.

Among the many other products represented in the list are oats, with 74 per cent of the consumer's price going to the farmer when bought by the bunch; potatoes, 59 per cent when bought by the bunch; potatoes, 59 per cent when bought by the bunch; potatoes, 59 per cent when bought by the bunch; potatoes, 61 per cent when bought by the bunch; watermelons, 34 per cent when bought by the bunch; watermelons, 34 per cent when bought by the barrel; turnips, 60 per cent when bought by the bunch; watermelons, 34 per cent when bought by the bunch; watermelons, 34 per cent when bought by the barrel; turnips, 60 per cent when bought by the barrel; turnips, 60 per cent when bought by the barrel; turnips, 60 per cent when bought by the barrel; turnips, 60 per cent when bought by the barrel; turnips, 60 per cent when bought by the barrel; turnips, 60 per cent when bought by the barrel; turnips, 60 per cent when bought by the barrel; turnips, 60 per cent when bought by the barrel; turnips, 60 per cent when bought by the barrel; turnips, 60 per cent when bought by the barrel; turnips, 60 per cent when bought by the barrel; turnips, 60 per cent when bought by the pound; water present-should be a pound of the consumer's price, where a

is the story of those unfortunate individuals who, born to wealthy parents and reared in luxury, grow up utterly unfitted to go out into the world and earn a livelihood when fortune fails. It teaches the wholesome lesson of the dignity of labor and demonstrates how hard it is to learn that lesson after the individual has reached man's estate. The authors of this excellent story have been successful competitors in serial competitions, and several of their productions have been published in book form.

### PREMIUM QUESTIONS ANSWERED.

Please tell me if I send subscribers for any of the premiums offered for clubs will the subscribers be entitled to the

### HAPPENINGS OF THE WEEK.

### National.

National.

The steamship Olympia with 123 persons on board, was wrecked on Rocky Blight island, 40 miles from Cordova, Alaska, where a heavy sea continues to roll and threatens to break the boat in pieces. After waiting 15 hours the frightened ocsupants of the vessel were rescued from their sea prison by the launch Donaldson. The supreme court of the United States upheld the decision of the Michigan supreme court in the case of the Grand Rapids hydraulic company against the officers of that city, in having the charter of the company repealed as done by the Michigan legislature in 1905.

President Taft has appointed Judge Edward Douglas White, a democrat of Louisiana, chief justice of the United States Supreme Court to succeed the late Mel-

ville W. Fuller. He also appointed Joseph R. Lamar, another democrat of Georgia, and Judge Willis Van Vandeventer, a republican, to the same bench to fill the vacancies caused by the advancement of Justice White and by the resignation of Justice Moody. The personnel of the new commerce court should the selections of President Taft be contirmed, will be as follows: Presiding judge, Martin A. Knapp, of New York; judges of the court, Robert W. Archibald, of Pennsylvania; Wm. H. Hunt, of Montana; Emmet Carland, of South Dakota, and Julian W. Mack, of Illinois.

A'mists are examining James J. Gallagher, who shot Mayor Gaynor of New York, to determine his sanity, the theory having been advanced that the would-be assassin was demented at the time of committing the crime.

A decision Monday by the federal supreme court opened the way for the federal authorities to proceed with the trial of the directors of the American Sugar Refining Company who are charged with violating the Sherman anti-trust law, and thereby closing the Pennsylvania Sugar Refining Company of Philadelphia. It was expected that the sugar directors would get out on technicalities.

Foreign.

Foreign.

The Peruvian ministry has resigned. It was appointed on Oct. 28.

The Mexican government is collecting troops in Chihuahua where an early engagement with the insurrectos is anticipated. On Sunday the two armies were

about 20 miles apart.

The English elections, while not complete, show that the former government will be returned to power with substantially the same majority as it had in the parliament.

last parliament.

John W. Garrett, who now occupies the secretaryship of the American embassy in Rome, has been named by President Taft as United States Minister to Vene-

lela. An imperial order of Czar Nicholas, Many places for Je Russia, opens up many places for Jews of the first guild. Business conditions appeared to be the reason of this move, it being the opinion of the cabinet and the Czar that the Jews could remedy the situation by their industry and business

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Czar that the Jews Count relievely the stouation by their industry and business acumen.

With the hope that their presence at the Canadian capital will aid in securing favorable legislation, 500 farmers from the northwest grain section of Canada have left for an excursion to Ottawa, where they will demand reciprocity with the United States in order that machinery will be delivered to them cheaper and that the government take over the terminal elevators on Lake Superior and the building of a government line to the Hudson Bay. The farmers represent the grain growers' association which is a strong organization numbering 40,000 members on its rolls.

The court of appeals of Portugal has ordered, in the action brought against former Premier Franco and others for issuing illegal decrees and making improper expenditures, that the suit be accumen.

proper expenditures, that the suit be

proper expenditures, that the suit be quashed.

More than 70,000 pilgrims visited the shrine of the Virgin of Guadaloupe, the patron saint and protrectress of the country of Mexico, on the occasion of the 379th anniversary of the greatest feast day on the Mexican calendar. The shine is just outside the City of Mexico.

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If you heat your home with either coal or wood stoves you ought to give thanks to a man over in Akron, N. Y., who has discovered a way to give you twice as much heat as you are now get-

ting for the same money, or just as much heat as you are now getting for 40 to 60% less money.

The inventor has sent us the illustrations showing the Parlor Furnace, as he calls his invention, attached to a stove pipe in an upstairs room above the parlor.

It has been pro ven time and time again that with the Parlor Furnace this cold upstairs room can be heated whole winter without through burning one extra hod of coal.

If you have over the room kitchen stove, or other over any stove, it can be comfortably heated all winter at no

Or if you have AN UPPER ROOM an adjoining room on the lower floor

you can easily heat it for the same price you are now heating the one room. If you have only one room to heat,

mind you, you can heat it with about half

HEATING

rooms, and utilizes the heat that would

otherwise go up the chimney.

There is no other invention like the Parlor Furnace; it is built on an entirely new and novel plan.

Box M, Winona, Minnesota.

It is extensively used in stores, offices, schools, churches, and workshops where one stove is not

sufficient and where cold floors endanger health.

The Parlor Furnace is made of polished blue steel, trimmed with nickel, and is an ornament in any home. It is easily attached to any stove: any man who can put up the pipe of an ordinary stove can connect a Parlor Furnace.



### THE INVENTOR'S LIBERAL OFFER.

I will send the Parlor Furnace to any address in the United States. Try it for 30 days and if it doesn't give satisfaction, or do all I claim it will do, return it at my expense. If it does give satisfaction send me \$12.00.

If you want further information and testimonials drop me a postal or letter today.

If you want to take advantage of my 30 days' Free trial offer right now, mail me the coupon below, and tell me what room you intend to heat with the Parlor Furnace. George E. Cady, Pres.

### Use This Coupon.

10.00	GEORGE	E.	C	ADY,			I	ep	t.
ı		Pr	es.		Heater	Co.,	Akron,	N.	Y.
	Dear	Sir:							

Please send me a Parlor Heater on 30 days' free trial. If I am satisfied with it, I will send you \$12.00. If I am not satisfied I will return it at your expense.

Name			 	 	
City	or	Town	 	 	
	Sta	ate	 	 	

How Long Should a

CREAM SEPARATOR

Last?

It Depends Upon the Kind

CONDUCTED BY COLON C. LILLIE.

#### BALANCING A RATION.

Please formulate us a balanced ration from the following feeds: Cottonseed meal, \$1.75 per cwt.; bran, \$1.30 per cwt.; dry beet pulp, \$1.20 per cwt.; corn meal, \$1.15 per cwt. Roughage, cut cornstalks and good rye hay.

Leelanau Co. C. E. B.

With dry corn stalks and hay for roughage, one would want to feed pretty liberally and would hardly expect to have the cows eat up this roughar very clean. Where one has no corn silage to feed, he should certain want to feed beet pulp in 100 lbs. of dried beet pulp and 100 lbs. of

warm weather. acidity than it does in cold weather, con- gets. Some get higher in some churnings the cream, you should set the cream over-run. where it is warm so that it will ripen; and, in making ripened cream butter, this cream ought to be warmed up to about 70 degrees and set in that temperature for about 12 hours, then it should be cooled down to 60 degrees and churned.

Now, if you will do these things, I don't think you will have much trouble in getting your butter to come, but if your butter does not come, it is because of the fact that your cows are getting well along the ration, and with the feeds named and in the period of lactation. Then it is a good prices, I would mix corn meal, beet pulp thing to pasteurize the cream, or the milk and cottonseed meal together for the when it is set. The average housewife grain ration, mixing 100 lbs. of corn meal, calls it scalding the milk. Set your milk on the stove and keep it there until it gets cottonseed meal together. Then I would real hot, then set it away in crocks and feed each cow per day in two feeds as when the cream comes it will churn more many pounds of this grain ration as the readily than where you do not pasteurize

as readily in cold weather as it does in at Chicago, the standard over-run was Well ripened cream 16% per cent. According to this, 100 lbs. churns more readily than sweet cream, of butter-fat ought to make 116% lbs. of and in the summer time your cream will commercial butter. On the average, I probably ripen to a greater degree of think this is more than the creamery sequently it will not churn as readily and lower in others but I don't believe now. After you skim your milk and get the average will exceed 161/2 per cent

#### STALLS OR STANCHIONS.

I have built a cow barn 16x40 ft., and I am undecided just how to fix the inside for the cows. My silo is at one end and I have an alley in front of the cows. Would like your advice through the Michigan Farmer. Would you advise stalls instead of stanchions? I like stanchions if the cows are just as well in them. Can you give me plans for the best stanchions for the cows? How long ought the floor to be for medium sized cows, from stanchion to gutter? Would you advise putting in a gutter? Is a cement floor all right for the cows to lay on or had there ought to be plank on the cement? Do you keep your cows that are soon to freshen, in stanchions?

Allegan Co. T. W. K.

T. W. K. Allegan Co.

As I have stated many times in the Michigan Farmer, this question of stalls, or stanchions, or the best kind of stalls, is one that cannot be settled by any discussion. It's a question where people do not agree. A man becomes used to stanchions and he likes them. Another man becomes used to a certain kind of a stall and he likes them and would have nothing else, so there is not much trying to settle this question. I have always said, that in my opinion, if cows could talk, they would tell you that they would prefer a stall to a stanchion, and yet I know a majority of the cows of this country are kept in stanchions and the modern stanchion is a great improvement over the old-fashioned, rigid one. If you are going to keep the cows in stanchions, I do not think you can make them and have them as comfortable as the modern stanchion. I should say that you had better look over the advertisements in The Farmer and write to the manufacturers of stanchions and select one from them. You will be much better satisfied with the swing chain stanchion, or modern stanchion, than you will with the rigid one, and certainly the cows will be better satisfied. If you have stanchions you must have a gutter or you can not possibly keep your cows clean. The cows must be lined up to the gutter, consequently the gutter should not run straight through the barn, but so there will be a narrower space at one end between the gutter and the stanchions than at the other; then put the shorter cows on the narrower platform. I cannot tell you just exactly how far it ought to be from the stanchions to the gutter. It will depend entirely upon the length of your cows. When the cows are standing up straight in the stall in the stanchions, their hind feet ought to stand just on the edge of This is nece the gutter. ry in order to keep the cows clean. I believe, on the average, you would want the gutter about 41/2 feet back from the stanchions. It will be better to round off the corner of the gutter just a little bit, because the sharp square edge is unnecessary, is liable to chip off, and a cow is apt to rake her leg across it and injure herself somewhat,

I have just learned of a new way of tieing cows and I believe if I were to build another cow barn, I would put in a few of these stalls to try them. I got my idea from Prof. Erf's talk in some recent of the moisture than it does at other dairy meetings. It consists as follows: A two-inch gas pipe is driven down through the floor of the stable just back of the manger and right at the place where you The dirt is would put the stanchion. taken out from the inside of this pipe, then an inch and a quarter pipe is slipped through, down into the two-inch pipe and plays up and down with a collar on it so out experimenting a little. When cows cent more of moisture it is denominated that it cannot be pulled out. Now a strap get pretty well along in the period of adulterated butter, so that the butter with a link is fastened to this inch and a lactation the churning does not come as maker must see that the water content quarter pipe. The strap has a ring, so that when you put the cow into the stall. you snap the strap around her neck. When she lies down the inch and a quar-Then again, the butter does not come as over-run limit. Butter can contain about ter pipe settles down into the two-inch well in cold weather as it does in warm 20 per cent over-run and yet have the pipe. When she gets up, the inch and a quarter pipe is raised out of the two-inch pipe, and works up and down, adjusting warming the cream. You should never. There is much talk now and discussion pipe, and works up and down, adjusting churn until the cream is at a proper tem- in the creamery circles to have a butter itself to the position of the cow. It seems perature, neither winter or summer. In standard instead of a moisture standard to me that this might work out nicely. the summer time you should cool the and it is probable that this will be worked I would want the cows to stand in stalls cream to the desired temperature and in out and in all probability the standard which, I should think, ought to be short, coming back at least half way on the perature has more to do with your failure ter. When butter contains 821/2 per cent bodies of the cows, because if they were to get butter than any one cause. Ordi- of fat, one can be assured that the mois- tied in this way they would have such narily, the cream ought to be at about 60 ture content will be below 16 per cent, freedom of their heads that they would be degrees to have the butter come readily, and your over-run will be something like fighting. But it seems to me that this

although injuries from this source are not

dangerous



The average life of the common "mail order" type of cream separator is one year; many of them barely hold out for three months; others for six; but this gives the "mail order" man plenty of time to get his money before the buyer discovers his mistake. SHARPLES TUBULAR **Cream Separators** are guaranteed forever, and thousands of them, sold ten years ago, are giving perfect service to-day. Tubulars are built right, by a manu-facturer who knows how; who has had thirty years' experience.

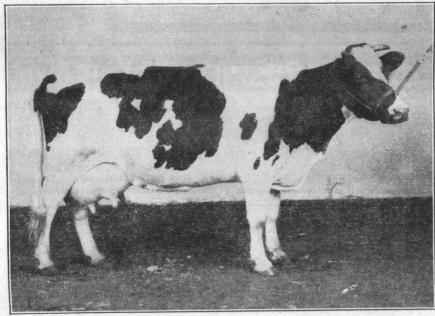
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Yrs

THE SHARPLES SEPARATOR CO.
WEST CHESTER, PA.
Chicago, Ill., San Francisco, Cal., Portland, Ore.
Toronto, Can. Winnipeg, Can.



A Champion Holstein-Friesian Cow.

This is rather liberal feeding of grain, the other of these remedies, you will find but if you have good dairy cows I think the cure of your trouble. they will well pay for the generous feed- should have a grain ration. ing. It will not be necessary to wet the beet pulp, they can eat it dry and get good results. Pains should be taken in mixing these feeds to get an even distribution of the cottonseed meal with the beet pulp and the corn meal.

### THE BUTTER FAILS TO COME.

Will some one please inform us as to the reason we can not get butter from our churnings? The two cows from which we are making butter came fresh in the latter part of May and were on pasture until six weeks ago, since that time have been fed liberally on corn fodder, beet tops and cabbage leaves, but no grain while on pasture. They were salted regularly but since being confined I neglected salting them very much for a month. Then we began to find it difficult to obtain the butter; but for the past 16 days they had all the salt they will use. Nevertheless, churning conditions are growing worse each time. Is it because they were not salted, or are there other causes? We set our milk in pans and it does not stand longer than three days, nor does the cream. We thought conditions ought to begin to improve by this time if it is only caused by neglect in salting them.

Antrim Co.

W. K. W. K. Antrim Co.

weather unless you take extra pains in moisture content within the limit.

cow gives pounds of butter-fat in a week.or scald it. I think if you try one after Your cows

### CASEINE IN BUTTER.

Will you please explain through the Michigan Farmer about caseine in butter? How much butter should 100 lbs, of butter-fat make? Have understood the law allows an overrun of 16 per cent. Does this 16 per cent include the caseine? Our presenting ways says the caseine is an excreamery man says the caseine is an extra over-run. St. Clair Co. SUBSCRIBER.

In churning the cream the globules of butter-fat are broken up and gathered into a mass known as butter. This butter contains not only butter-fat, but a certain amount of caseine, or the albuminous part of the milk which is part of the cream, also some added salt and water, or moisture. It would be impossible to separate all the moisture from the butter-fat in churning, if one wished to do Moisture is a part of the butter itself, so, also, is caseine and it is impossible to separate all of the caseine from the butter. When butter is churned at

a certain temperature, it will absorb more temperatures so that the moisture varies. The caseine is rather a fixed ingredient I do not believe that neglecting to salt and, of course, the salt being added is the cows regularly for a month would also variable but there is usually, on the have any effect upon the churnability of average, about four per cent of salt and the cream. There are various reasons caseine in good commercial butter. The why the butter might not come, and no limit of moisture in butter has been fixed one can tell just exactly the reason with- at 16 per cent. If butter contains 16 per readily as when they are fresh. Your or the moisture content of his butter does cows are getting along well in the period not reach 16 per cent, hence the 16 per of lactation, and this may be the fault. cent is the moisture limit and not the

There is much talk now and discussion the winter you should warm it. Tem- will be fixed at 821/2 per cent fat for but-Again, the cream does not ripen or sour 16% to 17 per cent. At the World's Fair would give the cow a great deal of free- you are writing to advertisers.

Whether or not you start with one

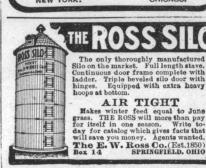
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The more you come to know about cream separators the better you will understand the overwhelming superiority of the DE LAVAL.

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Send for our new catalog which shows photographs of some of the most up-to-date barns in the coun-try. You will be convinced that we make the very best there is at the lowest price. THE HARRIS MFG. COMPANY, 816 Cleveland Ave., Salem Ohlo.

### Owl Brand Cotton Seed Mea

41 Percent Protein Guaranteed Standard for 35 Years.

Corn can't replace cottonseed meal.

Animals need Protein. Feed a balanced ration.

Write for our booklet "Science of Feeding."

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### A GREAT OPPORTUNITY FOR DAIRYMEN.

IF YOU WOULD LIKE TO KNOW:

1. More about the cow herself.

2. More about feeding and caring for her.

3. More about keeping the records and doing the work of the co-operative cow testing associations: then take the short course at the Grand Rapids Veterinary College. Write for catalog and information.

VETERINARY COLLEGE, Dept. B, GRAND RAPIDS, MICH.

FREE CHURN To introduce the Challenge Churn 1 to 10 gal. capacity. Makes good butter from milk or cream, easy in from 1 to 5 minutes. milk or cream, easy in from 1 to 5 minutes.
Write today sure, get one FREE.
MASON MFG. CO., Dept. J, CANTON, OHIO.

who will need a TANK
HEATER should see
the NELSON. No heat
wasted, all under
water. Two weeks free
atalogue No. 20 and prices trial. Send for catalogue No. 20, and prices. NELSON MF'G CO., Deerfield, Wis.

Please mention the Michigan Farmer when

dom, and yet it would keep her in place of ammonia. be economical to install because anybody can get the pipe and properly fit it, and there would be no royalty to pay. think the idea is well worth trying.

#### DISTILLERS' GRAIN VS. WHEAT BRAN.

Will you please give me the best balanced ration for cows in milk? Will feed ensilage twice a day, a little clover hay twice and oat straw once. Wheat bran at \$1.25 per cwt., cottonseed meal at \$1.85 per cwt., buckwheat at 60c per bu. When cottonseed meal is worth \$1.25 per cwt. what is dried distillery feed worth per cwt.? Would it be cheaper to feed the distillery feed than bran?

Leelanau Co.

J. L. P.

L suppose by distillars' crain is more than the control of the country of th

a refuse from the whiskey distillery and sulphate of calcium, or land plaster, so malted to make beer. Dried distiller's phosphoric acid and land plaster and some grain, where the whiskey is made largely free sulphuric acid. Land plaster wih from rye, contains only about 10 per cent absorb four times its own weight of moisof digestible protein, while dried malsters' ture and free sulphuric acid will form product contains about 18 per cent and a chemical combination with the volatile dried brewers' grain contains about 15 salt of ammonia and fix them and you per cent. Wheat bran contains a little get phosphoric acid as an added plant over 12 per cent digestible protein, con- food which is valuable to all Michigan sequently the distillers' grain is the by- soils. Now the question is, can we afford product of the whiskey distillery where to use acid phosphate? Fourteen per cent rye is made into whiskey. It would not goods will cost a farmer, delivered, about be as valuable as wheat bran, taking \$15 or \$16 a ton in car lots. But when into consideration only the protein, and the farmer buys acid phosphate, he is ure on in making up a ration because we phosphoric acid that it contains only. The and clover hay and other roughage that free sulphuric acid are thrown in. He is fed. In any case, there would be little pays nothing for it. Now, if our land difference between the dried distillers needs soluble phosphoric acid to grow the grain and the wheat bran at the prices most profitable crops, why can we not named. Cottonseed meal at \$1.85 per afford to buy acid phosphate as a stable hundred would be much cheaper in bal- absorbent? The land plaster helps abancing a ration with corn silage than sorb the moisture, the sulphuric acid either one of these. I would not use fixes the ammonia and the phosphoric protein you ordinarily can buy it at a mix it with the stable manure and draw price which makes it cheaper than dis- it out and spread it on the land? That cow. Now feed each cow as many pounds per day of this grain ration as she produces pounds of butter-fat in a week. If you don't care to feed the distillers' grain, use 300 lbs. of bran to 100 lbs. of cottonseed meal.

### BEST STABLE ABSORBENT.

I have been thinking of starting in pure-bred Holstein cattle in a small way. Where can I get a description or short treatise on this breed? I need some kind of absorbent for my cow stable. What would you recommend? Gypsum, kainit, or something else? State where I can get it and how much it should cost per 100 lbs. I have been using straw in my cement gutters behind cows but this don't absorb all the liquid. I desire your advice about it. I would like to save all the liquid some way conveniently.

Ogemaw Co.

I know of no better description of the

by Mr. H. Gardner, superintendent of the Association, of Delavan, Wis. If you will affect the cow stable? write to Mr. Gardner he will be very glad to send you this treatise on the outlines of the Advanced Registry System, which contains his article, description of the

Holstein breed. we used to think that land plaster was the very best stable absorbent. It not tried Mr. This sections where they have been only had the power of absorbing about four times its own weight of moisture, but it was believed, by many chemists, that a chemical combination took place which held the volatile ammonia of the chemical combination takes place when it ting up silos every year, and they are all is brought in contact with the carbonate in use.

Taking this for granted, just as well as a stanchion and you could then land plaster is no better absorbent keep her just as clean. It certainly would for the stable than road dust, or dry dirt of any kind, or dry muck. It will simply help absorb the moisture, but it will not I trap the ammonia. But the chemist tells us that acid phosphate, which is phosphate rock treated with sulphuric acid to make the phosphoric acid water soluble, is not only a good absorbent, but that there is enough free sulphuric acid left in it so that a chemical action takes place when it comes in contact with volatile carbonate of ammonia and fixes it as sulphate of ammonia, which is a substance soluble in water, but does not readily volatilize. Now when phosphate rock, which is phosphate of calcium, is treated with sulphuric acid, the sulphuric acid sets free the phosphoric acid and forms I suppose by distillers' grain is meant a combination with the calcium, making from the brewery where barley is that you have in acid phosphate soluble this is usually the only part that we fig- buying phosphoric acid and paying for the have the carbohydrate in the corn silage, land plaster which it contains and the ground buckwheat. If you will get buck. acid is worth all or more than we pay for wheat, sell the buckwheat flour for human it as a plant food. We usually put on acid food and take the residue or buckwheat phosphate with the wheat drill and a bran, or buckwheat middlings rather, couple of hundred pounds to the acre to which contains over 20 per cent digestible grow wheat, or oats. Can we afford to tillers grain or wheat bran. A good ra- is the question that every farmer must tion for the cows, with the feed named, determine for himself. Why is it not just would be to feed all the corn silage the as well to use phosphoric acid in this way cows will eat up clean night and morning and get it into the land as it is to use and feed liberally of clover hay what it with the wheat drill and distribute a your supply will allow, and also put in small portion in that way. By using it a feed of oat straw. Then I would make freely as an absorbent in the stable and up a grain ration of 200 lbs. of wheat drawing the manure out and spreading it bran, 100 lbs. of cottonseed meal and 100 on the soil we get the distribution of the lbs. of distillers' grain, if you can get it phosphoric acid just as well, perhaps not handy, and mix this all together. They quite so evenly when first thrown onto will give variety to the feed and make a the soil, but it will be distributed by splendid ration of grain for the dairy plowing and harrowing. Of course, we would not use much of this, a handful for each animal every day.

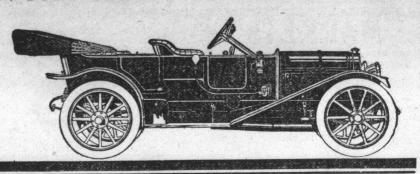
I can go to the plaster quarries here near Grand Rapids and get land plaster for \$4.00 a ton if I furnish the sacks to put it in. I can buy 14 per cent acid phosphate say, for \$16 per ton. Now, in the acid phosphate I have got the land plaster just the same, but it cost me nothing, because in buying the acid phosphate I am simply charged with the phosphoric acid which it contains. sulphuric acid combines with the ammonia and makes my stable manure much more valuable than if I had not used the acid phosphate. I have enough faith in acid phosphate as a stable absorbent so that I ordered a car load for my own use. I will be better qualified in a year or two to tell you something about it in a prac-I know of no better description of the tical way. There is one thing about acid Holstein-Friesian cattle than that written phosphate that I am not just ready to give an opinion on, and that is the odor advanced registry of the Holstein-Friesian of it. Will the odor of acid phosphate

COLON C. LILLIE.

### SILO HERE TO STAY.

A Kent county subscriber asks if it is

Some silos have been torn down and replaced by new ones. The reason the old ones were torn down was because they were not properly constructed, and had manures. When you go into a stable you decayed so that they were no longer air get a strong smell of hartshorn. This is tight. Once in a while a farm changes carbonate of ammonia. Now, the idea hands and the new owner is not a dairywas that this chemical combination ren- man or stockman; he has no use for the dered the carbonate involatile, fixing it sile. In such instances siles that had in the form of the sulphate of ammonia. formerly been used may be no longer I understand that recent investigation in used. Now, as a matter of fact, last year chemistry brings out the fact that the one dealer in Grand Rapids sold over 40 sulphuric acid is so strongly fixed in the silos, and he has sold more than that this sulphate of calcium, that there is no year. Dairymen of this vicinity are put-



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FARMERS have here the motor car that according to every test-endurance, hill climbing, actual farm experience—and according to every consideration farmers insist on—moderate cost, low fuel expense and small upkeep—is absolutely the ideal car for country work.

Easy riding, an impossibility over rough country roads with most cars, is highly featured in the Abbott-Detroit because we have adopted the identical spring suspension in use by the most expensive foreign makes of cars.

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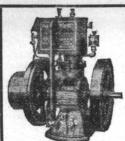


We consider users' opinions of the Hinman to be the most reliable information we can get. ought to accept those opinions more than anything that a salesman could tell you. Progressive farmers and dairymen everywhere are using the Hinman after investigating others.

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Hinman Milking Machine Co., 39 Seneca St., Oneida, N.Y.



But' Two Moving Parts.

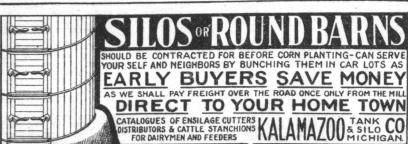
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HAVE ICE and KEEP GOOL IT COSTS BUT LITTLE AND IS A GREATLUXUYR Write for Pamphlet A. C.—"HOW TO CUT ICE."

### **MARKETS**

DETROIT WHOLESALE MARKETS.

December 14, 1910. Grains and Seeds.

Grains and Seeds.

Wheat.—Prices the past week have declined slightly from those of the previous period. Better crop conditions prevail generally. The decrease in the visible supply in Europe is not so large as a year ago while stocks there are larger than in 1909. The conditions in Argentine are still bullish and each week is proving it more certain that that country will be unable to furnish to the world's market its usual amount of grain. Conditions in the southwest are again becoming serious and, unless more rains come, that section will give support to higher prices. The visible supply of grain on this side shows a small decrease. The flour market is quiet and mills are not doing a large amount of grinding. One year ago the price for No. 2 red wheat was \$1.24½ per bushel. Quotations for the past week are:

	No. 2	No. 1		
	Red.	White.	May.	July.
Thursday	.961/4	.951/4	1.00	.95 3/4
Friday		.95	.993/4	.951/2
Saturday		.941/2	.991/4	.95
Monday	.95%	.94%	.993/4	.951/4
Tuesday	.95%	.943/4	.993/4	.951/4
	.951/4	.961/4	1.001/4	.95 3/4
Com Com	muloc	o cont	lamon	than a

Wednesday ... 95% .96% 1.00% .95% .95% 1.00% .95% .96% 1.00% ... 95% . No. 2

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Onto	r.		۸.	-		-				n	**	+	1	337	hoat	and	corn

Oats.—In common with wheat and corn, oat values declined this past week. The margin, however, is small and the market is firm at the new prices. The trade is steady and quiet. Receipts have been fairly large at primary elevators. One year ago the price for standard oats was 46½c per bu. Quotations for the week are:

are.									S	tan	da	rd.		Nh		
Thursday	1									35	3/4				51	
Friday .					 . ,					36	3				51	
Saturday										36	,				53	2
Monday		 	 							35					5	
Tuesday		 					·			35	1/2				5	
Wednesda										35	1/4	1		. 3	41/	2
			 	 1	1	2.4	4	1		boa	1	000	2	ac	m	0

Beans,—As usual, little has been done in the bean market this week. The prices given out by the board were lower. No transactions are reported and practically no attention is given this department. The price of beans one year ago was \$2.05 for cash. Quotations for the week are:

Cash. Dec.

																				(	Cash.	Dec	
Thursday		٠.																			\$2.05	\$2.0	
Friday .																					2.05	2.02	3
Saturday	•	•	Ī	•	•	i	0	Ĉ		Ì	Ĺ	ì	0	Ì	-	0		6	9		2.03	2.00	)
Monday		•	•	•	ì	ì	Ċ	į	ì	Ĵ	0	Ī	ì	ĺ	Ĩ					Ü	2.00	2.00	)
Tuesday	•	•	·	Ů	Ü	Ì	î	3	Ť	Ü	ŝ	Ü	- 7	9	0	0	Ī		Ĺ		2.00	2.00	)
Wednesda	a.	y	•		. ,				į.	i											2.00	2.00	)

Prime Spot.	Mar.	Alsike.
Thursday\$9.00	\$9.05	\$9.00
Friday 9.00	9.05	9.00
Saturday 9.00	9.05	9.00
Monday 9.00	9.05	9.00
Tuesday 9.10	9.15	9.10
Wednesday 9.10	9.15	9.10
RyeMarket is higher	and the	re is no

Grand Rapids.

The potato situation is still discouraging, both for buyers and seller. Storage houses are plugged full and shippers can get cars only now and then to move out the stock. If cars were plenty the prices would go still lower. At present the market ranges from 20@30c and at these low prices plenty of stock is being offered by farmers. The bean market is also weaker, though quotations to farmers continue on \$1.75 bas's for white and \$2.25 for red. The poultry market is a little better than last week. Live fowls and chickens are worth 11c; turkeys, 19c; geese, 12c; ducks, 13c. Dressed hogs are bringing 9@9½c this week. The egg market continues firm, prices to farmers for stock, loss off, ranging from 30@32c. Creamery butter is up 1c; dairy remains unchanged.

output for the week, 60,300 bbs, as comt cent advance was make to be well adjusted
for a steady market. Dairy products are
teady and unchanged. Quotations are:
Extra creamery, 80%c; thrst creamery,
\$1\text{Special reports of the trade.}

teature of the trade. Dealers are unable
to find any offerings and hence cando
supply the demand. The price advanced
me cent during the week and fresh
alow quoted at 32\text{\$\text{\$\text{\$k\$}}\$c per Doultry.}

Poultry.—Poultry is coming to market
uite liberally with the exception of turcleys, the latter being scarce and turcleys, the first special report by the dealers

reel the steady or lower. Dressed
chickens are now quoted at 12\text{\$\text{\$\text{\$\text{\$\text{\$k\$}}\$}\$} (20)

10\text{\$\text{

Friday 2.00 2.00
Monday 3.00
Monday 4.00
Mond

Potators.—There are no changes in 15946e; firsts, 25946e; fancy refrigerator prices or conditions of flist trade. Description of the trade of the prices of conditions of flist trade. Description of the trade of the prices of t

### MICHIGAN CROP REPORT.

MICHIGAN CROP REPORT.

Wheat.—The condition of wheat as compared with an average per cent is 96 in the state, 95 in the southern counties, 98 in the central counties, 99 in the northern counties and 92 in the upper peninsula. One year ago the per cent was 92 in the state and central counties, 90 in the southern counties and upper peninsula and 95 in the northern counties. The total number of bushels of wheat marketed by farmers in November at 124 flouring mills is 181,236 and at 115 elevators and to grain dealers 127,159, or a total of 308,395 bushels. Of this amount 193,690 bushels were marketed in the southern four tiers of counties, 96,146 in the central counties and 18,559 in the northern counties and upper peninsula. The estimated total number of bushels of wheat marketed in the four months, August-November is 4,500,000. Sixty-two mills, elevators and grain dealers report no wheat marketed in November. The total number of bushels of wheat yet remaining in possession of growers is estimated at 10,700,000.

Rye.—The condition of rye as compared with an average per cent is 96 in the state, 95 in the southern counties, 98 in the central counties and upper peninsula. One year ago the per cent was 91 in the state and central counties, 90 in the southern counties, 94 in the northern counties and 92 in the upper peninsula.

Live Stock.—The condition of live stock throughout the state is 97 for horses, sheep and swine and 96 for cattle.

Fall Pasture.—The condition of fall pasture as compared with an average per cent is 91 in the southern counties, 94 in the northern counties, 95 in the southern counties, 91 in the state, 90 in the southern counties, 91 in the southern counties, 92 in the central counties, 94 in the northern counties and 89 in the upper penin

### NATIONAL CROP REPORT.

The Crop Reporting Board of the Bureau of Statistics of the United States Department of Agriculture estimates, from the reports of correspondents and agents of the Bureau, as follows:

Winter Wheat.—Area sown this fall 2.5 per cent more than the revised estimated area sown in fall of 1909, equivalent to an increase of \$28,000 acres, the indicated total area being 34,485,000 acres. Condition on December 1 was \$2.5, against 95.8 and \$5.3 on December 1, 1909 and 1908, respectively, and a ten-year average of 91.3.

Rye.—Area sown this fall 1.2 per cent less than the revised estimated area sown in fall of 1909, equivalent to a decrease of \$2,300 acres, the indicated total area being 2,138,000 acres. Condition on December 1 was 92.6 against 94.1 and 87.6 on December 1, 1909 and 1908, respectively, and a ten-year average of 93.5.

#### THIS IS THE LAST EDITION.

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

#### DETROIT LIVE STOCK MARKETS.

Thursday's Market.
December 15, 1910.

Thursday's Market.
December 15, 1910.
Cattle.

Receipts, \$33. Best steers and canners steady; common cow grades 25@35c lower.
We quote: Best steers and heifers, \$6; steers and heifers, 1,000 to 1,200, \$5@5.50; steers and heifers, \$80 to 1,000, \$4.50@5; steers and heifers that are fat, 500 to 700, \$3.75@4.25; choice fat cows, \$4@4.25; good fat cows, \$3.50@4; common cows, \$3@3.25; canners, \$2.75@3; choice heavy bulls \$4@4.50; fair to good bolognas, bulls, \$3.50 4; choice feeding steers, 800 to 1,000, \$4.25@4.75; fair feeding steers, 800 to 1,000, \$4.25@4.75; fair stockers, 500 to 700, \$3.50@3.75; fair stockers, 500 to 700, \$3.50.
@3.75; fair stockers, 500 to 700, \$3.50.
@3.75; garde of mich cows closed \$5@10 lower and common cows \$10@15 lower than last week.
Roe Com. Co. sold Prince 2 stockers av

than last week

than last week.

Roe Com. Co. sold Prince 2 stockers av 515 at \$4; to Newton B. Co. 4 butchers av 902 at \$4.50, 7 do av 864 at \$4.50, 13 do av 841 at \$4.50, 13 do av 841 at \$4.50, 13 do av 841 at \$4.75, 1 bull weighing 820 at \$3.75, 1 do weighing 1,150 at \$4, 3 cows av 1,013 at \$3, 4 do av 990 at \$3; to Rattkowsky 1 do weighing 1,080 at \$3.50, 2 cow and bull av 1,225 at \$4.

Bishop, B. & H. sold Mich. B. Co. 6 cows av 960 at \$3, 2 do av 1,095 at \$4, 2 do av 890 at \$3, 7 do av 1,260 at \$4.50, 1 bull weighing 1,380 at \$4, 1 cow weighing 960 at \$2.50, 4 do av 882 at \$2.85; to Hammond, S. & Co. 2 bulls av 1,055 at \$3.75, 1 do weighing 1,150 at \$4, 1 heifer weighing 800 at \$4; to Parker, W. & Co. 12 steers av 1,178 at \$6, 1 do weighing 1,400 at \$4.50, 1 do weighing 1,300 at \$6.25; to Thompson Bros. 12 butchers av 760 at \$3.70, 3 cows av 1,007 at \$3.75; to Newton B. Co. 6 butchers av 630 at \$4; to Starrs 1 cow weighing 960 at \$3.35; to Kamman B. Co. 3 do av 950 at \$4.25; to Prince 3 stockers av 400 at \$4, 5 do av 575 at \$4.15; to Hammond, S. & Co. 3 canners av 830 at \$3, 3 bulls av 937 at \$3.75; 1 ox weighing 1,470 at \$4.50; to Mich. B. Co. 9 butchers av 777 at \$4.25, 2 do av 1,000 at \$4.75; to Regan 3 do av 587 at \$4; to Hammond, S. & Co. 6 canners av 930 at \$3.55; to Breitenbeck 7 cows av 871 at \$3.50; 1 bull weighing 930 at \$3.25; to Hammond, S. & Co. 6 canners av 930 at \$3.50; to Breitenbeck 7 cows av 871 at \$3.50; 1 bull weighing 1,150 at \$3.50; to Rattkowsky 3 cows av 1,143 at \$3.55; to Cooke 1 steer weighing 1,380 at \$5.50; to Rattkowsky 1 to Kappleaum 7 butchers av 671 at \$4.50; to Appleaum 7 butchers av 671 at \$4.50; to Appleaum 7 butchers av 680 at \$4.50; to Cooke 13 steers av 935 at \$5.10; to Mich. B. Co. 2 bulls av 1,825 at \$4.35; to Hammond, S. & Co. 3 cows av 1,020 at \$3.55; to Cooke 13 steers av 960 at \$5.25; to Thompson Bros. 1 cow weighing 1,500 at \$4.5 to Rattkowsky 1 bull weighing

Johnson sold Cooke 3 steers av 916

Same sold Regan 10 heifers av 668 at \$4. Kendall sold same 3 do av 603 at \$3.65. Rohm sold Sullivan P. Co. 1 cow weighing 1,350 at \$4.25, 2 heifers av 890 at \$4.35.

Sandall & T. sold same 7 cows av 960

at \$3.

Kendall sold same 2 do av 1,180 at \$4.

Allington sold same 2 do av 875 at \$2.50.

Bohm sold Fronn 2 cows av 1,000 at

Johnson sold Goose 5 cows av 1,068 at \$3.60. Adams sold Heinrich 4 butchers av 970

Allington sold Newton B. Co. 7 cows av

Allington sold Newton B. Co. 1 cows av 888 at \$4. Downing sold same 5 steers av 988 at \$5. Kendall sold same 2 do av 1,120 at \$5.50. Sandall & T. sold Mich. B. Co. 17 butch-ers av 760 at \$4.25.

Calves.

Receipts, 550. Market steady at last Thursday's prices; quality common. Best \$8.75@9; others, \$3.50@8; milch cows and springers, \$8@10 lower.

Receipts, 4,597. Market 25@50c lower than last week; heavy lambs very dull and strong, 50c lower. Best lambs, \$5.75 @6; fair to good lambs, \$5.25@5.50; light to common lambs, \$4.50@5; fair to good sheep, \$3.25@3.75; culls and common, \$2@3.

Sheep, \$3.25@3.75; culls and common, \$2@3.

\$picer & R. sold Breitenbeck 26 lambs av 75 at \$5.80; to McMillan 9 do av 93 at \$6.15, 29 do av 90 at \$6.15, 71 do av 77 at \$6, 9 sheep av 110 at \$3; to Gordon 3 lambs av 100 at \$5.50, 7 do av 85 at \$6; to Newton B. Co. 21 do av 85 at \$6. Roe Com. Co. sold Nagle P. Co. 187 lambs av 85 at \$5.75, 4 sheep av 120 at \$3. Haley & M. sold Nagle P. Co. 15 lambs av 80 at \$5.60; to Stocker 15 do av 78 at \$5.50, 3 do av 120 at \$4.50; to Fitzpatrick Bros. 50 do av 70 at \$5.50.

Bishop, B. & H. sold Swift & Co. 212 lambs av 76 at \$6.10; to Breitenbeck 6 do av 90 at \$4.75, 15 sheep av 90 at \$3; to Parker, W. & Co. 198 lambs av 73 at \$6.10, to Lyons 54 do av 90 at \$6.10, 38 sheep av 135 at \$3.65; to Sullivan P. Co. 23 do av 90 at \$2.50, 8 do av 105 at \$2.75; to Mich. B. Co. 21 do av 105 at \$3.25; to Nagle P. Co. 147 lambs av 85 at \$5.75, 17 do av 77 at \$6; to Mich. B. Co. 9 sheep av 70 at \$150; to Sullivan P. Co. 10 lambs av 40 at \$3.50.

Adams sold Nagle P. Co. 18 lambs av 75 at \$5.80.

Sandall & T. sold Young 48 lambs av 80 at \$5.45.

Sandall & T. sold Young 48 lambs av 80 at \$5.45.

80 at \$5.45.
Carmody sold Sullivan P. Co. 17 lambs av 70 at \$5.60.

McLaughlin sold Mich. B. Co. 41 lambs av 85 at \$5.70, 45 sheep av 120 at \$3.50.
Sharp sold Newton B. Co. 8 sheep av 100 at \$2.75, 25 lambs av 83 at \$6.

Leach sold same 9 sheep av 90 at \$2.65.
Sandall & T. sold Hammond, S. & Co. 27 sheep av 85 at \$3.15.

Waterman sold same 7 do av 95 at \$2.85, 2 lambs av 110 at \$5.50.

Hogs.

Hogs.

Hogs.

Receipts, 6,700. Bidding 10@15c higher than last Thursday. None sold at noon. Range of prices: Light to good butchers, \$7.70@7.75; pigs, \$7.75; light yorkers, \$7.70@7.75; stags one-third off. Bishop, B. & H. sold Parker, W. & Co. 4,310 av 175 at \$7.70.

Roe Com. Co. sold Sullivan P. Co. 540 av 200 at \$7.70.

Sundry shippers sold same 210 av 175 at \$7.60.

Spicer & R. sold Hammond, S. & Co.

Spicer & R. sold Hammond, S. & Co. 1,715 av 190 at \$7.70.

Haley & M. sold same 450 av 180 at \$7.50.

Farmers who filled their feed lots with lambs several months ago were in many instances borrowers from the country instances borrowers from the country banks, such loans usually running for a period of three months, and as fast as these loans matured they were called in, necessitating the prompt marketing of the flocks. To a very large extent the industry has proved an unprofitable one, and so long as the large movement marketward is kept up there will be a poor show for a majority of sheepmen, the business having been overdone as a general rule.

### CROP AND MARKET NOTES.

CROP AND MARKET NOTES.

Ottawa Co., Dec. 10.—The ground is covered with snow, and there is more falling, but there is not nough yet for sleighing. Many fields of wheat in this section looked some yellow when snow came. It was on the ends of the leaves. It is the opinion of the writer that the cause was on account of the favorable condition of the soil and weather when wheat was sown, so the plant made a very rapid growth, which made it tender when the first hard freeze came, which caused the ends of leaves to turn yellow, as a close inspection reveals no sign of insects. Some farmers in this vicinity just finished husking and shredding their corn before snow came. There is still some corn standing in the field unhusked. About the same amount of hogs being fattened as last year, but the corn crop is not quite as good. Most of the hogs, veal calves, cattle and sheep are bought by a man who ships them to Buffalo. This has a tendency to keep up prices in the local market.

Genesee Co., Dec. 10.—Considerable snow has fallen so far this month and as the ground underneath was not frozen when it first came, very bad roads resulted. Now, however, they are frozen and are becoming leveled down and hauling is rather more brisk. Our market consumes a large amount of loose hay and it is not uncommon to see ten to a dozen loads in a single day. This sells at

Haley & M. sold Parker, W. & Co. 3 av 170 at \$\$9,1 do weighing 90 at \$7, to av 170 at \$\$9,1 do weighing 90 at \$7, to av 170 at \$\$9,1 do weighing 90 at \$7, to av 170 at \$\$9,1 do weighing 90 at \$7, to av 170 at \$\$9,1 do weighing 90 at \$7, to av 170 at \$\$9,1 do weighing 20 at \$8, to av 170 at \$\$9,1 do av 189, to av 189,

Laporte Co., Dec. 12.—Winter seems to have come to stay. Stock was in pasture until Nov. 30, but the weather has continued cold and wintry since. Stock is in good shape and there will be plenty of feed and prices for same are cheaper than a month ago. Bran, \$22; middlings, \$24; buckwheat bran, \$20; butter, 35c; potatoes, 40c; ten degrees above zero the lowest temperature up to date. Hogs have declined to 6½c, live weight, but will soon advance, in the opinion of most farmers. Cow peas, which are grown here, make an extra feed for dairy cows and keeps up the flow of milk with an increased yield of butter-fat.

Illinois.

Perry Co., Dec. 5.—The month of November was ideal weather for fall work. Little or no rain fell, which was hard on fall wheat, but fine for gathering corn. Wheat is in rather poor condition, mostly on account of being sown late and no rain after it was sown. Corn turned out fairly well considering the drawbacks. The storm on August 23 blew it all down and chinch bugs damaged it badly. Yields from 25 to 50 bu. per acre. Mostly all cribbed now. Potatoes were good, but not many potatoes are raised here, hardly

at from \$11@15 a ton; corn, 50c bu; oats, 40c; wheat, 90c; eggs, 36c; doz; butter, 36c

Williams Co., Dec. 10.—November, and December also up to the present time, has been very cold with much wind. The ground has been covered with snow nearly all of this month so far. Corn husking is about finished and most of the fodder haule. A good many have shredded the fodder, thinking it makes better feed. Hogs took quite a drop in price during November, but are picking up some now. Cattle not quite so high as earlier in the fall. Horses not very good sale just at present. Not very much fall plowing was done this fall on account of husking being late and cold weather setting in too soon. Hay is about \$14 per ton; eggs, 30c doz; butter, 28@30c ib; milk, \$2 per cwt; corn, 50c per cwt. Rough feed seems to be quite plentiful.

Wisconsin. Wisconsin.

Wisconsin.

Ashland Co., Dec. 4.—Fall work nearly all done and chances are that no more will be done, as November has been cold enough so ground is frozen and we have three or four inches of snow, and wood hauling, skidding of logs, underbrushing and wood cutting now the work being done. In this part of the country, which is mostly new, the farmers best harvest is in the winter, marketing the products of the forest, and the work of the farmer here is never done, as a general rule, and most of them put in longer davs in winter than in summer. Potatoes, as a general rule, were stored, but some sold at 45, 50 and 60c, according to time delivered. Better prices are expected in the spring. Dairy butter, 32c, and scarce; creamery, 38c; eggs, 30c; oats, 50c. Hay still holds high, \$20 per ton, none being shipped in that sells for less. Meats, which have been lowered at some points, have not been lowered here yet.



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This is quoted from a letter by an Illinois farmer about his Saginaw Silo. Hundreds are writing us about the money saved and the money made by using the good old-reliable Saginaw Silo. You make sure of Silo Service for a lifetime when you have the Saginaw. Inform yourself about this Silo question. There are right Silos and wrong Silos. Write us today and we will give you the facts so you can judge for yourself. The FARMERS HANDY WAGON COMPANY, Saginaw—Des Moines—Minneapolis Makes and sells the famous saginaw Silo direct from the factory only. This is the Silo with the Saginaw All-Steel Door Frame, that positively gevents collapsing or bulging when the Sile is filled. We own the patent. No others are allowed to use it. Described and illustrated in the free book, "The Modern Way of Saving Money on the Farm." This book shows by actual figures, compiled from tests on farms in your state, how much the Saginaw Silo-silo assess by the day or the month. Write for it The Whirlwind Silo Filler—easiest running—most durable—only Filler fit to go with the Saginaw Silo—is sold direct from the factory, too. Ask for Special Price. (10)

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In amounts from \$50 down. This amount is actually given away because the \$200 is in addition to all cash commissions and rebates, which are in themselves liberal pay. Every person reading this is entitled to enter the competition—no restricted territory to any one. All supplies furnished free. Write now for full details. Address

CIRCULATION DEPT., THE MICHIGAN FARMER, Detroit, Mich.

PLYMOUTH TOMATO GROWERS ORGANIZE

For several years past the tomato growers of Plymouth have been recognized as leaders in the production of very early tomatoes for the Detroit market and be cause of the very favorable soil condition a great many farmers have taken up tomato growing; but, up to three years ago they had no place to dispose of the remaining crop after the market price in Detroit fell to fifty cents per bushel as to haul to Detroit. As a natural result,

they realize that without it this increase tinued indefinitely, but the general situa. from \$6.00 to \$8.00 per ton would not have tion can be merely, hinted at with the been secured for they had striven for the hope that teachings will be more generpast three years to secure an increase, but to no avail. Through organizing they have gotten a substantial increase in less than six months.

G. C. RAVILER. Wayne Co.

#### A CONSIDERATION OF THE APPLE CROP

Reflection over the too many frequent failures of the apple crop in certain sections of the country and the general decadence in the total crop, notwithstanding a constantly increasing acreage of orat this price it would not pay the grower chards, disclosed a serious situation, well worthy of the most earnest attention of many tomatoes went to waste in the all wishing to maintain an industry profields.

ducing the king of fruits. It is well known A catsup manufacturing company rec- that our largest annual crop was in 1896

are enthused over their organization for on leaves. These instances might be conally disseminated and investigated.

There are a countless number of points pressing for consideration. For instance, in the year producing 47,000,000 barrels of apples, a half crop, gave us twice as large a total as the year producing onefourth of a crop, to which many apple growers had been accustomed. consequence, they did not know how to handle the half crop. They claimed they could not secure cooperage stock, in some instances they could not get pickers, and strongly alleged that there was a trust which monopolized cold storage houses and freight cars, thus barring them from all available markets. While, perhaps, some of their fears were groundless, there should be some way to provide for such emergencies and thus prevent the large products of some orchards going as food for worms and hogs when such fruit should go as blessings all over the land.

Experienced apple growers with large orchards do not hesitate to say that after the number one's have been disposed of the bulk of the money as profits for the orchard comes from the remainder of the crop when converted into the many useful and serviceable by-products

Illinois. JAMES HANDLY.

#### VALUE OF TOP-GRAFTING.

Instead of experimenting with a large planting of a new variety of tree fruit, top-graft a few trees. You will be able to determine the merit of the variety in shorter time and at less expense. If it proves to be a favorite then you can plant extensively.

It is not unusual to see a fairly good crop on a three-year-old top-graft.

Varieties which, on their own roots are weak, unthrifty or disease-inviting, make excellent crops when top-grafted on strong-growing trunks. The Northern Spy is an example of an apple tree practically immune from the attacks of the wooly aphis. It is sometimes planted and worked over to other varieties.

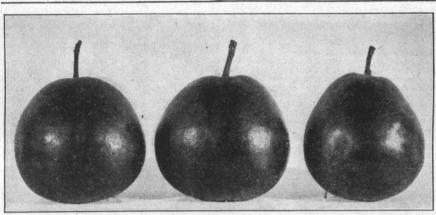
Grafting is one of the most interesting things on the farm and it is absurdly A little desultory practice will coduce expertness. What could be soon produce expertness. more fascinating for the boy than to teach him the rudiments and then let him work over some old apple tree with a different variety on each limb-a dozen kinds on a tree-sour, sweet, early, late, big and little, crabs, even pears can be grafted on apple tree tops. Peach grafts will grow on apricot and plums on peach trees and vice versa. Of course, it don't pay to work over poor, weak roots. The source

The writer had a row of "Smith's Cider." The trees were vigorous growers, but the apples rotted badly. I top-grafted them to "York Imperial" and in four years when in leaf the row was hardly distinguishable in point of size from the

Top-grafted trees tend to grow upright but this can be overcome by pruning.

Top-grafts do better on small stubs than on large ones. Three inches is about the maximum diameter. The big limbs below can be sawed off without injury. Some trees are naturally bad bearers,

though true to name. Top-graft them with scions from the most productive tree in the orchard and you will soon do more



W. L. Kline, of Oakland county, presented to this office a number of pears grown upon grafts brought from Germany, from which specimens were photographed for the above illustration. The variety is unknown, but upon sampling they proved to have a very fine texture and splendid flavor and though picked ten weeks not a single specimen showed signs of decay, or of breaking down. Although Mr. Kline practices spraying upon his large orchards, the trees with the German grafts were not treated. And for this reason the results were the more remarkable since the specimens were smooth and free from blemishes and we have Mr. Kline's word for it that the fruit appears to withstand the attack of our insects and fungous troubles better than our old varieties.

ognized that this condition meant an when the total yield in the United States opportunity to secure cheap tomatoes. was 69,000,000 barrels. They sent a representative who canvassed The growers were willing to contract at annual crop was reported as ranging bethis price at that time in order to secure tween 21,000,000 and 22,000,000 barrels. a pulp mill at this place and to assist a The largest total since 1896 was 47,000,000 new enterprise, but they felt that the and this was considered, with increased price was too small. However, they de- acreage, as being only half a crop. livered their tomatoes as agreed and at and refused to grow again unless a higher price be paid. While the catsup com- a fresh apple from one year to another. pany argued with these growers, they It is apparent that something should be were securing new contracts by telling done to bring about a better state of newcomers what a profit there was in affairs in the apple industry. growing tomatoes at \$6.00 per ton, by pointing to some grower who had a tre- familiar with the most approved method mendous yield the previous year. same argument l.as been used by the Spraying should become more general and company from time to time, thereby instructions as to the most intelligent holding the price to an unprofitable one

This year the growers took time by the forelock and organized a Plymouth Tomato Growers' Association and long before it was time to contract for another for exterminating insects. They should year the association had nearly every to- also learn that it is waste of time to put mato grower in the vicinity of Plymouth poison on foliage to kill pests who live as a member and when the question of contracts for 1911 arose the catsup company found a different condition confronting them, for now they must deal with the growers through their association and not as individuals, since no individual grower would contract with any company that vas not first approved by the association. This the company did not like for they could forsee that they could not use the old stock argument of profitable growing at \$6.00 per ton, for the association had gathered statistics and made an accurate estimate of the cost of growing and livering one ton of tomatoes under an average condition in this locality. It was found that the farmers could not afford to grow tomatoes at the present time for so small a price as they had been receiving.

Bids were secured from different manufacturers of pulp for catsup and after some negotiation one company offered a price of \$8.00 per ton and agreed to contract with members of the association only, this offer was approved by the members of the association at a meeting held for this purpose, and now contracts are being made with members of the association at \$8.00 per ton.

It is needless to say that the growers

With a third larger acreage there have the territory and secured contracts from been some years when the total crop did farmers and early growers at \$6.00 per not exceed 23,000,000 barrels, one-third of ton., (a trifle over 17c per 60 lb. bushel), the crop for the year mentioned, and delivered at their factory at Plymouth. there have been some years when the

It goes without saying that during the the end of the season many growers found past several years apples have been very that no money could be made at this price scarce and expensive in our largest cit- of energy—the root system—should be ies, where thousands of people never taste

> The orchardists should become more This of producing more and better fruit, adjoining rows. instructions as to the most intelligent mixing and applying of spraying mixtures, should be imparted. For instance, apple growers should lorn that there should be different mixtures applied for eradicating fungous diseases and those by sucking juices of fruit and never feed than even.



An illustration from a photograph taken upon the farm of John Larsen. shows that sweet corn of size and quality can be grown in Newaygo county. Counties which boast of being superior corn localities would have difficulty in eclipsing

# THE GREATEST

results in cases of weak digestion are obtained from SCOTT'S EMULSION because when ordinary foods do not digest, it provides the needed nourishment in highly concentrated form.

# **Scott's Emulsion**

is so easily digested that its strength is rapidly absorbed by the youngest babe or most delicate adult.

SCOTT'S EMULSION is the food that strengthens the race. ALL DRUGGISTS



### REDUCE BARN EXPENSES

Do Less Work - Make More Money

We have just completed a nicely illustrated book that shows how to lighten every day barn workhow to reduce cost of caring for stock—how to make profits bigger.

This 48 page book tells how to keep the barn cleaner with less work; how to eliminate the disagreeable part of your chores; how to save the valuable fertilizer; and gives other information. We will send this book free. Illustrates daily use of the James Litter, Feed and Milk Can Carriers, If you want to learn about James Sanitary Cow Stalls, Stanchions, Buil Pens and Calf Pens ask also for Catalog No. 8.

KENT MFG. CO., 303 Cane St., Fort Atkinson, Wis.

HUNDREDS OF CARLOADS OF Fruit and Ornamental Trees,

Fruit and Ornamental Trees,
Evergreens, Shrubs, Hardy
Roses, etc. 1,200 acres,
50 in Hardy Roses, none
better grown, 44 greenhouses of Palms, Ferns, Ficus,
Everblooming Roses, Geraniums, and other things too
numerous to mention. Mail size
postpaid, safe arrival and satisfaction guaranteed. Immense stock of SUPERB CANNAS,
the queen of bedding plants. Acres of Pæonias
and other Perennials, 50 choice collections
cheap in Seeds, Plants, Roses, etc. For Fruit
and Ornamental Trees ask for Catalog No. 1, 112
pages; for Seeds, Everblooming Roses, Cannas,
Geraniums, Greenhouse and Bedding Plants in
general, Catalog No. 2, 168 pages. Both FREE.
Direct deal will insure you the best at first
cost. Try it. 57 years.

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Strongest brown tent canvas, warm lined. Lockstitch
sewed, web bound. Two wide
girths attached. Guarantee tag
on each Old Honesty. Ask your
dealer or write us. Booklet free. BEMIS BLANKET COMPANY 20 Bemis Bldg., Omaha, Neb



### The Winters Farm Pedigree Oats

The best seed oats on the market. Yield 77 bushels one year, 76 bu. each year for 5 years. We have tested most of the leading varieties America, Canada and England.

\$1.25 per bu. Bags free. BYRAM L. WINTERS, Proprietor, Smithboro, Tioga Co.. N. Y.

PLANT HARDY TREES ealthy, acclimated, high grade, true to label fruit trees id plants for Northern States at wholesale prices, direct om nursery to planter. Send for catalogue. CELERY CITY NURSERIES, DESK E, KALAMAZOO, MICH. MICHIGAN HORTICULTURAL SOCIETY.

rank as one of the most important inter- barrels per tree and net \$150 per acre per ests of our state is evidenced by the large year, cuts out blight twice a week, cutand enthusiastic Fortieth Annual Meeting ting 18 inches below the infection. He of the State Horticultural Society at Ben- has a clay soil, cultivates until July withton Harbor, Dec. 6-7-8. The large audi- out plowing then sows cover crops or lets torium of the Bell Opera House, in which weeds grow. He prunes lightly, and sprays the meetings were held, was filled, even three times with lime sulphur, once beto the balcony, from the time set for call- fore the blossoming period and twice afing to order on the first day to the close ter. of the program late in the afternoon of danger from blight was most serious the third day. Much credit is due to while the trees were growing rapidly be-President Smyth, Secretary Bassett, and fore they reached bearing age. the officers of the Berrien County Society rand's observations led him to believe that for planning this excellent program and the blight entered the tree through the perfecting arrangements for so success- blossoms, being carried by bees. Mr. Dow fully carrying out the same. All sessions advised dipping shears in lime sulphur were started on time and no topics held over for succeeding sessions, thus giving the cut with the solution. Another growtime for a full presentation of all subjects er had good results from using kerosene and for ample discussion. Every number in the same way, believing that this kept on the program was a live topic, handled the bees from working on the sap and by a live speaker who was an authority thus carrying the blight to or from the on the subject, and instead of conventree. Mr. Farnsworth and Mr. Welch had tional papers nearly every topic was had little blight since using lime sulphur handled in an informal manner and seem-as a spray and believed that there must ed to be the overflowing of the best things be some virtue in it. Mr. Chatfield rein the speakers' wealth of experience. If ported some injury to Bartlett and Kieffer the overflow was insufficient to quench foliage by using lime sulphur 1 to 40, the thirst of all present for knowledge to while Mr. Ewald had no damage in using meet individual requirements, an addi- as strong as 1 to 30 in summer. tional supply was drawn out through advised agitating the barrel well before pointed questions and discussions. These drawing off the solution. The question brisk and pointed discussions which fol- as to whether Bartletts could be profit-lowed the presentation of each topic ably grafted upon Kieffer stock was much proved to be a most interesting and in- discussed, the concensus of opinion being structive feature of the meeting.

In addition to the many good things to be heard there were beautiful and in- claimed that this union was strong enough structive things to be seen. Three tables to hold up the fruit. Prof. Eustace reladen with select specimens from the best ported that New York growers considered apple orchards of the state extended the Kieffer a poor stock either for grafting entire length of the long stage, with tab- or budding. Opinions differed as to the les at the ends and an instructive ex- advisability of using pear fillers in apple hibit of apples at the back collected by orchards. Hale and Sherwood practiced the Horticultural Department of the it, Farnsworth advised quick maturing Michigan Agricultural College to show the apples instead, and Woodward no fillers difference in the results of bordeaux and at all. lime-sulphur sprays. Festoons of evergreen and flowers were draped from the sion with a talk on the subject curtains and wings of the stage and arranged artistically about the tables, which, supplemented with vases of cut flowers made a very pretty sight.

hand and power sprayers, spray chemiinterest to the grower.

Results from Spraying During the Past profit which should go to the grower. Season.

Tuesday morning's session was opened promptly by President R. A. Smythe, of tain grades as agreed. This may or may Benton Harbor, who, after the audience not include all varieties. The grower may had joined in singing the national hymn, pick and pack stock or not, as agreed, called upon Supt. F. A. Wilken, of the This is usually a better method than the South Haven Experiment Station, for the result of their spraying experiences during the season.

Mr. Wilken stated that in their experiments commercial lime-sulphur, 1 gallon ent price on the different grades if the to 40 of water, used as a summer spray buyer is to do the packing. 3. Consign-for apples and pears caused very little ing to commission men. This requires russeting of the fruit, and controlled the scab perfectly, even on Flemish Beauty in getting the returns, and the results are pears. Used 1 to 50 on plums and peaches variable and often unsatisfactory. Prof. it controlled the rot fungus without injury to the foliage. Results with coddling moth sity, but thinks there are more than needwere not as good, as the brood was later ed. lead to 50 gallons gave fair results. The to hold and market their fruit more at arsenate should be applicd to the spray their leisure. just before using as there is some deteof solutions, as the weight varies with the fruit and had studied the Mr. Dow considered that the hydrometer advantage. reading of the clear solution was reliable. follow: Mr. Wilkin could not advise the lime sulgrape. He advised the following formula on car, and crates returned. for the home-made wash: 15 lbs. sulphur, made stock solution should contain twice as much sulphur as lime.

Pear Culture.

lowed with a talk on "Pear Culture." Mr. Farrand prefers a rather heavy soil and such varieties as the Bartlett, Bosc, Anjou, Clapp's Favorite, and Duchess. Bartlett is the standard. Would not plant ing prices: \$2.50 for fancy, \$2.00 for No Kieffer. Culture is the same as that of 1, and \$1.00 for balance. the apple orchard, though more pains should be taken to avoid producing an in crates in cold storage has sold at \$2.00 overgrowth of sappy wood and thus favor per bushel for the last two years without blight. On this account many prefer com- the crate. mercial fertilizers to stable manure, and seed down the orchard if it is making too

FORTIETH ANNUAL MEETING OF rapid growth. Cutting out some distance below the infection is the only remedy known for the blight.

In the discussion the question of blight was discussed at length. Mr. Fritz who That Michigan horticulture is taking has 4,000 trees which produce three to five Several growers agreed that the solution after making cuts, and painting that it made a weak, bungling union and not advisable, though Mr. Wilde was

Prof. Eustace opened the afternoon ses-

More Money for the Apple Crop. Three methods of disposing of the crop were considered. 1. Lumping off the crop either on the trees or the seller to In another building were exhibits of do the packing. This lets the grower out of some work and worry, but the shrewd cals, nursery stock, and other things of practiced buyer is likely to get the best of him on the estimate and get part of the At a price per barrel to be agreed upon, for orchard run packing stock or for cerother, though it has its faults. In this case it is better for the buyer to take all of the packing stock at the same price per barrel, rather than to make a differmore time and help and sometimes delay Eustace believed the middleman a necesand that more cold storage houses than usual, though 2 lbs. of arsenate of should be built and growers be prepared

Prof. Eustace then gave a few instances rioration through chemical action on of growers in all parts of the state who standing. Mr. Wilkin did not consider had realized more than average prices the hydrometer a fair test of the strength for their apples because they had good marketing amount of sediment and for other causes. problem so as to dispose of it to the best Some of these illustrations

In 1909 Mr. Power, near Detroit, sold phur for the mildew and black rot of the his Steele's Red at \$1.25 per bushel, put

Mr. Smith, of Grand Rapids, received 8 lbs. lime, 50 gal, water. For summer \$2.00 per bushel for Jonathans this season spraying use one-fifth strength of the from private customers in Grand Rapids, above winter wash. The strong home- while Mr. Crane, of Fennville, realized made stock solution should contain twice but \$3.25 per barrel for Jonathans that were just as good but were sold through a Chicago commission firm. It is probable Mr. Farrand, of Eaton Rapids, fol-that Mr. Crane's apples retailed as high or higher than Mr. Smiths.

David Woodward, near Clinton, has worked up a private trade in boxed apples, and this season received the follow-

Mr. C. W. Wilde, who stores his crop

(Continued next week). S. B. HARTMAN. Calhoun Co.

Fruit Growers!

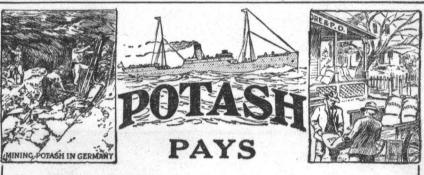
# Bowker's Lime-Sulphur is absolutely pure

No salt or caustic being added, every drop is effective against the San Jose and other scales, destroying mosses, fungi, etc., and thoroughly cleaning up the trees without injury.

Write for special prices, stating number of trees to be sprayed.

BOWKER INSECTICIDE COMPANY, 43 Chatham St., Boston, Mass.

Manufacturers of Arsenate of Lead; also Bowker's "PYROX" the one Best All Around Spring and Summer Spray for fruits and vegetables.



### DO NOT DELAY! Order Your Potash Now

Every spring there is less potash in your local market than the farmer needs and wants to buy. There is a reason for this. You expect to order potash with the other fertilizers, forgetting that potash must come some four thousand This takes time.

Those who want to insure arrival in time, place their orders as early as October to permit shipment before the German rivers are frozen. Late orders are subject to more risks and delays.

Arrange for your dealer to place his order now so as to be sure of a supply. If he does not handle it write us for prices direct from the mines to you. Do not forget that the longer you have used phosphate the greater is the

GERMAN KALI WORKS, Continental Bldg., Baltimore, Md.

present potash need and profit.





## GRANGE

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

#### THE DECEMBER PROGRAMS.

Suggestions for Second Meeting.

Feeding of Animals, III.—Cattle Foods: Forage. 2. Straw, roots and grains.

#### THIS WEEK'S STATE MEETING.

some of the complex problems which con- \$118,825.83. front this year's delegates is very keen. The Grange extension fund for the year was decided to discontinue its publication. The figures recently issued by Secretary as appropriated by the National Grange at the close of the present year at which of Agriculture Wilson, as the result of at the November, 1909, session was \$9,- time the contract with its present pubcareful and exhaustive investigations by 600. In all, \$11,267.54 was expended in lishers expires, the Department, showing that the pro- extension work. This includes \$2,969.93 A resolution ducer receives scarcely more than 50 paid for National Grange Official Organs Grange asked that, in State Granges hav-cents of each dollar paid by the ultimate sent to charter members. The amount ing more than 500 delegates, nominating consumer, have forced the conclusion that paid for organization efforts was dis- discussions of the qualifications of candia practical, workable system of co-opera- tributed as follows: South Dakota, \$1,- dates for State Grange offices be permit tive selling is an absolute necessity to the 187.95; Minnesota, \$1,038.88; Iowa, \$803.28; ted. A ruling was made by the National farmer, and this matter is sure to receive Maryland, \$666.30; most serious consideration. The feeling Washington, \$348.43; Colorado, \$325; Mich-thing except presentation of the candiseems to be general among the delegates igan, \$315.85; Kentucky, \$310.10; Idaho, dates' names. This resolution was disapthat this year the Grange should more \$292.45; Vermont, \$213.14; Illinois, \$170.- proved by the by-laws committee, and closely adhere to the policy of concentrat- 42; Ohio, \$115.84; Wisconsin, \$109.50; Indefeated. ing its efforts, in the direction of securing diana, \$78.20; Kansas, \$61.93. legislation, upon not more than two or three measures. federal aid for highway building and improvement are the two measures which seem most likely to be given precedence under this plan. Proportional representation in the National Grange will also, no doubt, receive the attention due such an important matter and the Grange will probably reiterate its demand for this desirable change. The action taken on each and all of these vital questions will be fully covered in the complete report of the meeting which will be given in future issues of this paper.

### CO-OPERATION.

Applied to organizations, this term "cooperation" which we so often use, frequently comes to have a limited meaning. Broadly speaking, to co-operate signifies to work together; but very often when a "co-operative organization" or "co-operative movement" is spoken of, only financial co-operation is thought of, that is, buying and selling in a kind of partner-This places a restriction upon a ship. word which admits of a much more generous interpretation.

Suppose the original intent of the organization was to promote financial profits. Despite this possibility, in most cases, larger and more desirable objects still will result as they must result whenever men and women work together for a worthy cause. Co-operation for money profit, if entered into upon a basis of obtaining justice for all, demands that the co-operators shall respect one another's rights and privileges. There soon develops a recognition of dependence upon one another. Respect for differences of opinon broader grounds than heretofore is into a conviction that the co-operation of \$13.05; Tennessee, \$2.18. mind with mind is something of more voice alone.

much and as surely as do their husbands extension work in the states of the when they buy a car of coal or sell stock Northwest, and that the disposition of possibility of error.

of union, of harmony, of effort, and the California State Granges; that \$800 strong bond that comes with service in appropriated for extension work in Vircommon. "Separate from others, our ginia, to be under the direction of the lives run to waste, but we were made to masters of Pennsylvania, West Virginia. combine with others and to find scope for and Maryland State Granges; and that our powers in administering to their well-being."

"Not from one metal alone the perfectest mirror is shapen, Not from one color is built the rainbow's aerial bridge;

honey is drawn.'

JENNIE BUELL.

Feeding of Animals, III.—Cattle Foods:
1. Forage. 2. Straw, roots and grains.
2. Silage. 4. Commercial feeding stuffs.
3. Silage. 4. Commercial feeding stuffs.
5. Milk, meat meal, etc.
Reading, "Is a cow or a chemist the better judge of cattle foods?"

Question box.
"Once in Royal David's City," recited by a child or sung by chorus.
Christmas recitations, dialogues or tableaux.

Christmas recitations, dialogues or tableaux.

The 44th ANNUAL MEETING OF THE NATIONAL GRANGE.

National Treasurer McDowell reported that the receipts during the year, including the plane of \$7,079,-100 and their the amount. that the receipts during the year, includ- the books of the National Grange would 72, were \$56,737.79, and that the amount raid out during the year was \$35,494.39. The total resources of the National not have access to the books, and so long The indications at this writing are that Grange are now as follows: Balance with as the wisdom of the expenditure of some the delegates assembling at Traverse City the Farmers' Loan and Trust Co., \$21,- of the extension funds has been questhe 38th annual session of Michigan 243.40; deposits in savings banks, \$10,- tioned because of the seeming disparity State Grange will outnumber those of any 309.87; railway and other bonds, \$45,668,previous meeting of the kind in the state. 71; loans on real estate, \$40,248.99; un instances, the membership at large wants The attendance of Patrons not delegates expended Grange extension, \$994.86; unalso will be very large, as the interest in expended deputy fee fund, \$360; total,

> The Grange extension fund for the year Missouri,

together. In any and all of these lines the funds be placed in the hands of the co-operation people feel the strength masters of Washington, Oregon, Idaho and \$5,000 be allowed for other extension work under supervision of the National Grange executive committee." This proposition was defeated.

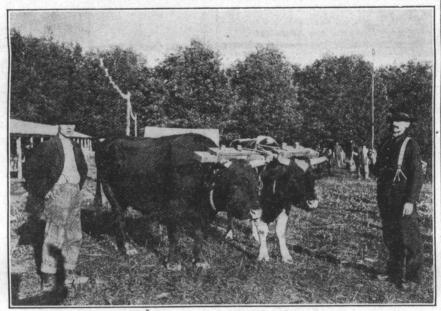
Song, "The Christmas Welcome," page
104, Song Knapsack.
Roll-call, responded to by each one aming one noteworthy happening of 1910.

Not from one color is built the rainbows
aerial bridge;
Instruments blending together yield the divinest of music,
of myriads of flowers sweetest of voted down, along with 19 other questions asked of the National Grange administration in a memorial signed by representatives of the executive committees of the five State Granges of Michigan, Pennsylvania, Maine, Washington and Oregon. National Treasurer McDowell reported It was disapproved on the ground that show the disposition of the moneys. Those supporting the question contended that the Grange membership in general can between expenditures and results in some the items and is entitled to them.

Owing to dissatisfaction with the management of the National Grange Organ it was decided to discontinue its publication

A resolution from Pennsylvania State \$503.45; Grange a few years ago prohibiting any

Resolutions asking for change in the The amounts paid to the National basis of representation of the National The parcels post and Grange by the various Grange states are Grange came respectively from Pennsyl-



A "Pioneer Reminder" Feature of the Successful Grange Fair held at Kingsley, Grand Traverse County, During the Past Season.

follows: New York, \$4,468.11; Maine, vania and Washington, One advocated \$4,137.60; Michigan, \$2,204.22; New Hamp- a delegate for every 10,000 members in a shire, \$1,782.01; Pennsylvania, \$1,744.62; state, the other asked for increased vot-Ohio, \$1,506.83; Massachusetts, \$1,038.44; ing power for the delegates as now con-Vermont, \$856.10; New Jersey, \$806.41; stituted (state master and wife) to pro-Washington, \$479.69; Oregon, \$398.67; vide one extra vote for each 1,000 mem-Kansas, \$369.26; Connecticut, \$334.81, Delaware, \$148.07; Maryland, \$131.07; Rhode Island, \$116.02; Colorado, \$106.22; misleading statements made by the Naanother. Respect for differences of opin-ion follow and the value of uniting forces Illinois, \$104.70; California, \$99.52; West tional Department of Agriculture as to Virginia, \$88.14; Missouri, \$68.10; Indiana, the enormous wealth of farmers when soon appreciated. Even when the incen- \$60.33; Kentucky, \$53.01; Iowa, \$40.55; farmers on an average get only 35 cents soon appreciated. Even when the incentive to combine efforts is an entirely selfish motive, this very means may grow \$24.24; Minnesota, \$16.60; South Dakota, ers for their produce; recommended tariff

As the value than that of muscle with muscle, on each member annually to the National til proper payment of taxes on them has or dollar with dollar; and that ballot co-operating with other ballots will achieve the membership in each state. The \$1,- ally per horsepower, favored better edumore than the loudest shoutings of one 187.95 spent on organization effort in Min- cational and social facilities for farmers nesota the past year, and the \$1,038.88 to the end that tenant farming be dis-After working together with others for spent for the same purpose in South Da- couraged, and the extension of agricula common purpose it becomes apparent kota do not seem to have had much reputural educational facilities as fast as that to "co-operate" may mean buying sult in membership growth in those possible.

This disparity between the experimental couraged, and the extension of agricultural educational facilities as fast as possible.

Washington, Ohio and South Dakota thinking together. It means that when following resolution from Pennsylvania will be held at Columbus. women get up a sumptuous Grange feast, was presented by State Master Creasy: they "co-operate" in doing so quite as "That \$4,000 be appropriated for Grange

\$334.81, bers. These were both defeated.

Action by the Grange deprecated the treatment fair to agriculture, a rural parcels post,

the hayfield or in a lodge room, in a home penditures in these two states in particu- invited the National Grange for next or in a community; it may mean ming- lar and the apparent result has occa- year. The vote went: Ohio, 30; Washling together for recreation, or even for sioned considerable dissatisfaction, so the ington, 18; South Dakota, 3. The meeting

## Intense Suffering

From Dypepsia and Stomach Trouble.

Instantly Relieved and Permanently Cured by Stuart's Dyspepsia Tablets.

A New Discovery, but Not a Patent Medicine.

Dr. Redwell relates an interesting account of what he considers a remarkable cure of acute stomach trouble and chronic dyspepsia by the use of the new discovery, Stuart's Dyspepsia Tablets.



He says: "The patient was a man who nad suffered, to my knowledge, for years with dyspepsia. Everything he ate seem-er to sour and create gases in the stomach. He had pains like rheumatism in the back, shoulder blades and limbs, fullness and distress after eating, poor appetite and loss of flesh; the heart became affected, causing palpitation and sleeplessness at night.

"I gave him powerful nerve tonics" and blood remedies, but to no purpose. As an experiment I finally bought a 50-cent package of Stuart's Dyspepsia Tablets at a drug store and gave them to him. Almost immediate relief was given and after he had used four boxes he was to all appearances fully cured.

"There was no more acidity or sour, watery risings, no bloating after meals, the appetite was vigorous and he has gained between 10 and 12 pounds in weight of solid, healthy flesh.

"Although Stuart's Dyspepsia Tablets are advertised and sold in drug stores, yet I consider them a most valuable adcition to any physician's line of remedies, as they are perfectly harmless and can be given to children or invalids or in any condition of the stomach with perfect safety, being harmless and containing nothing but fruit and vegetable essences, pure pepsin and Golden Seal.

'Without any question they are the safest, most effective cure for indigestion, biliousness, constipation and all derangements of the stomach, however slight or





PATENTS: For facts about Prize and Reward offers and Inventions that will bring from \$5000 to Ten Million Dollars, and for books of Intense Interest to Inventors, send Sc. postage to Pubs. Patent Sense, Dept. 89, Barrister Bidg., Washington, D.C.

Associational Motto.-

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

#### THE ASSOCIATIONAL MEETING.

The eighteenth annual meeting of the Michigan State Association of Farmers' Clubs was held in Representative Hall, of the Capitol building at Lansing, on Tuesday and Wednesday, December 6-7, instead of in the Senate Chamber as in previous years and as announced for this year. It was fortunate that the change House of Representatives during the legislative sessions was none too spacious to accommodate the delegates assembled for the meeting, and the old quarters would have been uncomfortably crowded. Not only were the 100 chairs on the floor of the house occupied, but the seats about the sides of the room were well filled at all of the sessions of the convention up to the closing session of the last evening, when some of the delegates found it necessary for them to leave. It was, however conceded by everybody that the attendance was larger than for any similar meeting in the history of the organization, and the interest in the deliberations of the convention was tense throughout

#### The Opening Session.

The session on Tuesday morning was devoted entirely to the routine work preparatory for the main business of the convention, such as the payment of dues, the presentation of credentials, the appointment of committees and the presentation of resolutions, which were referred to the several committees appointed by the chair in accordance with their subject matter. The standing committees of the convention as appointed by President B. A. Holden, were as follows:

Committee on National Affairs: Messrs. Patrick Hankerd, of Jackson Co.; A. L. Chandler, of Shiawassee Co.; T. B. Halliday, of Jackson Co., and C. B. Cook, of Shiawassee Co.

Committee on State Affairs: Col. L. H. Ives, of Ingham Co.; E. C. Hallock, of Lapeer Co.; Geo. Friederich, of Jackson Co.; R. Waterbury, of Oakland Co., and D. Monroe, of St. Clair Co.

Committee on Temperance: Rev. L. Severence, of Jackson Co.; R. J. Bullen, of Eaton Co.; Carl Bullock, of Lapeer Co.; Mrs. Fred Strong, of Lenawee Co., and L. F. Gibson, of Clinton Co.

Committee on Honorary Membership: All ex-presidents of the State Association. with J. T. Daniells, of Clinton Co., as

Committee on Credentials: Herbert Smith, of Washtenaw Co.; Theo. Moore, of Oakland Co.; C. P. Johnson, of Lapeer Co.; Mrs. J. F. Kohn, of Ionia Co., and Mrs. B. B. Curtis, of Saginaw Co.

Co.; H. W. Nichols, of Livingston Co.; F. Oppenlander, of Ionia Co., and W. E. Roberts, of Jackson Co.

### Tuesday Afternoon Session.

This session was carried out in accordance with the program, with the exception of the omission of the address of response on behalf of the club, which was deferred until the evening session. The local clubs throughout the state may addresses of the afternoon were given by know something of what the other clubs mands and the limitations of the several A. C., whose address was on the subject ture of the convention was most inter-"Agricultural Education." Space will esting, as is always the case. of permit the giving of a comprehensive report of these talks in this issue. For the present we must be content to say that both were forceful and to the point, and both held an important message for the delegates to carry back to their home clubs for the betterment of the agriculture of the entire state from these local centers. In some future issue we shall give a synopsis of each of these talks, which were replete with practical ideas born of a full experience and a wide observation along the lines of the talks given.

### Tuesday Evening Session.

manifested in or the entertainment af- follows: forded by the program. The session was opened by an address of welcome by Mayor Bennett, of Lansing, in which the to the nomination of U. S. Senators by delegates were welcomed to and given the direct vote of the people. freedom of the city in a few well chosen The farmer, he garners from the soil of the State Association, whose remarks gamblers who control our currency and the primal wealth of nations.

Were most fitting to the occasion. The produce unnecessary panies entertainment features of this session con sisted of musical numbers by C. P. Johnson, of the Hadley and Elba Club, and Mrs. Garry Sanders, of the Ingham Co. Club, and a reading by Mrs. W. H. Marks, tariff commission to be appoint of the Starrville Club. Then followed the President of the United States. president's address by Associational President's ident B. A. Holden. President Holden the attention of the delegates held. throughout his address, which showed that ter laws for the conservation of our nahe has been a deep student of the welfare tional resources, and particularly those of the organization during the year in relating to water powers and coal lands. to the other end of the building was which he has been at its head. He made made, as the larger hall occupied by the a number of recommendations, some of which were carried out in the work of, and resolutions adopted by, the convention at a later session, and some of which will be taken up at once by the executive committee in the planning of the work for the coming year. We regret that space will not permit us to give both the president's address and the result of the deliberations of the convention in this issue, for which reason we will be obliged to defer the publication of President Holden's excellent thoughts as expressed in his annual message to the delegates from the local Clubs assembled in convention, until a future issue.

"The Farmer's Wife's Share," was the subject of an excellent paper delivered by Mrs. Alfred Allen, of the Ingham County Club, which will be published in a future issue, as the thoughts expressed were

particularly wholesome and instructive. Hon. H. C. Smith, of Adrian, was scheduled for a talk on "Our State Institutions and the Farmer's Interest in Them," but as Mr. Smith could not be present. President Holden arranged with President J. L. Snyder, of M. A. C., to address the Association in his stead. President Snyder gave a most interesting, entertaining and instructive address on the agricultural problems of the day. He showed the important place which America has taken in the agriculture of the world by stating that our farmers constitute about five per cent of the population of the world, and that our agricultural lands constitute about six per cent of the area of the world, yet our farmers produce 43 per cent of the grain consumed in the world. Other comparisons were made and other lessons drawn which will be summarized in a later issue for the benefit of those who were not present to hear this address, which emphasized the importance of the inauguration of better methods of farming all along the line.

### Wednesday Morning Session.

The first feature of the session on Wedresday morning was the Conference of interest to all the delegates and affords them an opportunity to learn all about requested to use all means in their power the conduct of other local clubs in differ- to procure such appropriation. ent sections of the state, and especially the special features of club work which Committee to Receive and Formulate have been made to add to the interest of an attempt to make it only rural is a Resolutions: A. R. Palmer, of Jackson the meetings. One problem which some subterfuge of the express ocmpanies to Co.; Judge J. W. Edgar, of Livingston of the clubs had found difficulty in solv-delay or defeat the measure, therefore we ing was to interest the young people of the community in the work of the club. Others had been successful in this important department of successful club post system as is now in use by any forwork. This conference lasted for an hour eign country. and a half, a large proportion of the delegates giving brief talks, which will be rewelcome by the mayor of the city and the ported more in detail in some future issue, to the end that the members of the ritory. Ex-President C. B. Cook, who talked on are doing and how they are doing it. For "Alfalfa," and Prof. W. H. French, of M. the present we can but say that this fea-

Next in order of business ports of the committees and the transaction of the routine business of the meeting, followed by the election of officers for the ensuing year. While the report of the committee on State Affairs did not come until the afternoon session, and while in the future deliberations of the convention, other resolutions were presented to the body of delegates and passed without referring them to the standing committees, we will for the sake of convenience give them together in this re-The resolutions thus reported and passed for this reason appeared to over-In this session a few transpositions lap somewhat, but this may be taken as were necessary in the program, but this indicating the earnestness of the mem- old law of former years.

National Affairs.

Resolved, that we affirm our position as

Resolved, that we favor a better kind of words. The response in behalf of the as- national bank currency, and a better syssociation was made by A. L. Chandler, tem of banking laws, in order that the of the Maple River Club, and ex-president public may be protected against stock

> Resolved, that we favor a fair and equitable revision of the Payne-Aldrich tariff law, to be ascertained and recommended to congress by a non-partisan

> Resolved, that we favor a fair and equitable reciprocity treaty with Canada.

> Resolved, that we favor more and bet-

Resolved, that we favor such amendments to the interstate commerce laws as will permit the commission to make favorable terms to shippers which do not amount to discrimination against others; and also one to prohibit the shipping of intoxicating liquors into the terrtory where their sale is prohibited by law.

Resolved, that we favor the strengthening of all anti-trust laws, in order that unlawful restraint of trade may be effectually prohibited.

Whereas, we have good reason to believe that the express companies have dominated and controlled congress and persistently defeated all efforts towards having a system of parcels post that would in a measure relieve the public from such company's greed and extortion; Therefore Resolved, that this association urge upon every congressman and senator to work for and vote for this reform demanded by the people, and for so doing we pledge them our earnest sup-port, regardless of any political affiliations and regardless of the political destiny of those politicians who have seen fit to serve those special interests at the expense of their electorate.

Whereas, we believe that the immense expenditure of money to build the Panama canal will be of no value unless such canal zone be policed against the unstable, marauding factions of the Central American States, Therefore it is the sense of this Association, that the United States should fortify and protect such canal property.

Whereas, congress appropriates millions dollars annually for the improvement the waterways of this country, and whereas, the waterways are in better condition for transportation than the highways for the hauling of our products to market, and we pay our full share of this money for the improvement of the waterways, Therefore Resolved, by the Michigan State Association of Farmers' Clubs that we earnestly demand of congress a like sum for the improvement of the highways, and that a copy of this pre-Local Club Workers, which is always of amble and resolution be sent to our congressmen and U.S. senators and they be

Realizing that a rural parcels post would be of very little benefit, and believing that delay or defeat the measure, therefore we respectfully request our representatives and senators to use every reasonable effort to secure at least as good a parcels

Resolved, that we favor national legislation that will prevent the shipment of intoxicating liquors into prohibition ter-

Resolved, that in view of the unjust deexpress companies, the public interest requires the establishment of a parcels post, this Association hereby renews its most earnest request for the establishment of

State Affairs.

Resolved, that we favor legislation by which the license of automobiles be increased and that the receipts be applied to the improvement of our public highways.

Resolved, that we again place this association on record as favoring an amendment to the state constitution granting to woman the elective franchise.

Resolved, that we favor the extension of the closed season for quail for a period

Resolved, that we regard the present road law as a great improvement over the

in no way detracted from the interest bers along certain lines. They were as Resolved, that we favor the repeal of so much of the law requiring a license for hawkers and peddlers as may be construed as applying to traveling grocerymen or grocers selling goods from wagons in the country.

Resolved, that it affords this Association pleasure to refer to the grand work being done by our agricultural college, an institution which stands as the pioneer institution of its kind, the leader of them all. We would call attention to the fact that the college has no audience hall large enough to accommodate all of the students at once and we hope that the ways and means may present themselves so that tariff commission to be appointed by the this crying need may be supplied at an early day.

Resolved, that we recognize the great work done by the Dairy and Food Department, and ask for liberal appropriations for a continuance of its effective operation.

Resolved, that the law making criminal the producers of milk below three per cent butter-fat and 12 per cent ash is unjust and unfair, unless it is farther shown that said producer has some knowledge or information of such deficiency and violation of law.

the Agricultural College. Whereas. through its present efficient faculty, has very deservedly become a great institution of learning and as such has become closely allied to the farmers' interests, and whereas, we have always received from it and its teachers the most cordial aid and co-operation, Therefore Resolved, that we hereby express out appreciation of such helpful aid and assistance, and extend a vote of thanks to the teachers and Board of Agriculture.

#### Temperance.

Whereas, true progress and permanent prosperity results only from the intelligent use of faculties and opportunities, and Whereas, the use of intoxicating liquors tends to deaden the sensibilities, destroy ambition and militate against worthy living, thereby doing most serious harm to him who thus indulges and in many instances brings sorrow and suffering to innocent and defenseless women and children, these, with other ills, being the inevitable result of the liquor traffic, there, fore be it Resolved, by the Michigan State Association of Farmers' Clubs, that we will co-operate with every organization and effort having for its purpose the destruction of the American saloon and the upbuilding of the cause of temperance.

Resolved, that we can not too strongly express our disapproval of the management which, after advertising that no intoxicating liquors would be sold on the State Fair grounds, allowed a saloon to run, and we demand that we have a "dry" fair, not only in promise but in fact. Be It Further Resolved, that we appreciate the work of the Michigan Farmer in exposing the treachery of the management of the fair.

### Club Extension.

We pledge our efforts along this line and recommend the appointment of a committee in every club, whose duty it shall be to seek communities where a club would be supported and to establish a club in every such community. (Signed by the six directors of the Association).

Honorary Members.

Pursuant to the recommendations of the committee Messrs, T. B. Halliday and Z. W. Carter were made honorary members of the Association.

Election of Officers.

The election of officers resulted in the selection of B. A. Holden as president for another year and Mrs. C. B. Johnson as Mrs. Lewis Sackett, of the secretary. Eckford Club was elected treasurer. Johnson, of Metamora, and Patrick Hankerd, of Munith, were elected directors for a term of three years each to succeed Messrs. E. C. Halleck and T. B. Halliday, whose terms expired with the closing of this fiscal year.

Discuss Fruit Growing.—One of the most interesting meetings of the Farmers Club was held on Nov. 3 at the pleasant home of Mr. and Mrs. Iva Adams, near Duncan Lake. After one of those bountiful dinners, for which the Club is noted, the meeting was called to order by the president. The regular business disposed of, the subject, "Fencing and fertilizing, fruit and fuel," was taken up. Taking as his part of the subject, "Fencing and Fertilizing," Henry Adams gave a good, practical talk, while Mr. Stutz, leading on "Fruit and Fuel," aroused quite an animated discussion. Mr. Stutz exhibited some specimens of apple tree limbs affected with San Jose scale, also some lub was held on 3 at the pleasant scale, also some fected with San Jose fected with San Jose scale, also some fruit from affected trees. Considerable interest was shown on the subject of fruit raising, and Mr. C. E. Beeler, of Caledonia, gave a very interesting de-scription of some large apple orchards which he had visited in Washington.

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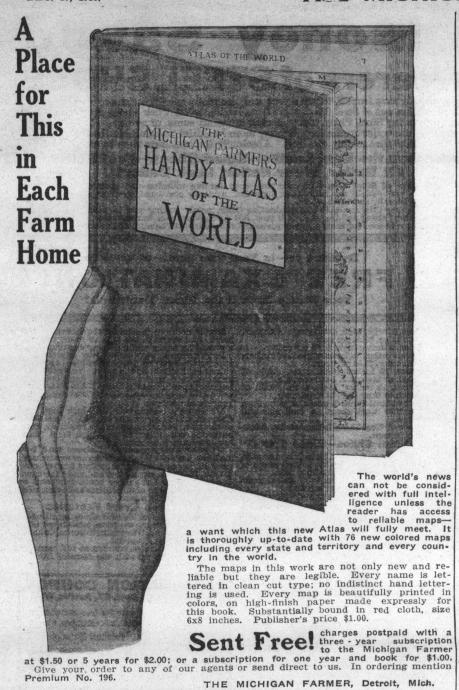
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